



---

# PHASE II INVESTIGATION RESULTS

1522 Whitaker Street  
White Bear Lake, Minnesota  
EPA Grant ID: BF00E009 00-0

Prepared for:  
Ramsey County  
and  
City of White Bear Lake

May 30, 2014

PHASE II INVESTIGATION RESULTS  
1522 WHITAKER STREET  
WHITE BEAR LAKE, MINNESOTA  
EPA Grant ID: BF00E009 00-0  
(Peer File #22056)

Prepared for:

Ramsey County  
15 West Kellogg Boulevard, Room 250  
St. Paul, Minnesota 55102

and

City of White Bear Lake  
4701 Highway 61  
White Bear Lake, Minnesota 55110

Prepared by:

Peer Engineering, Inc.  
7615 Golden Triangle Drive, Suite N  
Eden Prairie, Minnesota 55344  
(952) 831-3341

May 30, 2014

Prepared by:



---

Ann Morin-Jansen  
Senior Environmental Professional

Reviewed by:



---

Kenneth A. Larsen, P.E., P.G.  
Vice President

## TABLE OF CONTENTS

<b>1.0</b>	<b>INTRODUCTION.....</b>	<b>1</b>
<b>2.0</b>	<b>BACKGROUND .....</b>	<b>1</b>
2.1	PROPERTY DESCRIPTION .....	1
2.2	PREVIOUS ENVIRONMENTAL INVESTIGATION .....	1
2.3	FUTURE REDEVELOPMENT PLANS .....	2
<b>3.0</b>	<b>PHASE II INVESTIGATION .....</b>	<b>2</b>
3.1	OVERVIEW.....	2
3.2	SOIL BORINGS .....	3
3.3	GROUNDWATER SAMPLING.....	3
3.4	SOIL GAS SAMPLING.....	3
3.5	ANALYTICAL TESTING.....	3
<b>4.0</b>	<b>INVESTIGATION RESULTS.....</b>	<b>4</b>
4.1	SUBSURFACE OBSERVATIONS .....	4
4.2	ANALYTICAL RESULTS .....	5
4.2.1	Soil Analytical Results.....	5
4.2.2	Groundwater Analytical Results .....	6
4.2.3	Soil Gas Analytical Results .....	7
4.3	DATA QUALITY ASSESSMENT.....	7
<b>5.0</b>	<b>SUMMARY AND CONCLUSIONS .....</b>	<b>7</b>

## LIST OF FIGURES

Figure 1 – Site Location Map

Figure 2 – Site Diagram

## LIST OF TABLES

Table 1 – Samples and Laboratory Analysis

Table 2 – Soil Analytical Results

Table 3 – Groundwater Analytical Results

Table 4 – Soil Gas Analytical Results

## LIST OF APPENDICES

Appendix A – Spatial Data

Appendix B – Soil Boring Logs

Appendix C – Laboratory Analytical Reports

Appendix D – Data Assessment Report

## 1.0 INTRODUCTION

Peer Engineering, Inc. (Peer) was retained by Ramsey County to complete a Phase II Investigation of the property located at 1522 Whitaker Street, White Bear Lake, Minnesota (see **Figure 1**). The purpose of the Phase II Investigation was to evaluate the Property for potential soil, groundwater and soil gas contamination that could affect future redevelopment. The investigation was funded by a grant from the United States Environmental Protection Agency (EPA) to Ramsey County (EPA Grant ID: BF00E009 00-0).

This Phase II Investigation was completed in a manner consistent with the *Sampling and Analysis Plan, Phase II Investigation, 1522 Whitaker Street, White Bear Lake, Minnesota, Grant ID: BF00E009 00-0, Revision 1*, dated December 5, 2013 (2013 SAP) prepared by Peer and approved by the EPA on December 13, 2013. As indicated in the 2013 SAP, all field work, sampling procedures, and analytical methods were conducted in accordance with the *Quality Assurance Project Plan, Ramsey County Brownfield Assessment Project, Ramsey County, Minnesota* dated January 3, 2013 (QAPP). The EPA gave conditional approval to the QAPP in a June 14, 2013 email correspondence. The conditional approval required several changes to the QAPP, which were submitted to the EPA on July 19, 2013 as Revision 1 (QAPP R1).

## 2.0 BACKGROUND

### 2.1 PROPERTY DESCRIPTION

The Property is located on the south side of Whitaker Street and to the west of State Highway 61 in White Bear Lake, Ramsey County, Minnesota (see **Figure 1**). The Property is comprised of three parcels (PINs 233022230005, 233022230006, and 233022240001) developed with a building that was constructed in 1970 (with additions in approximately 1980, 1985, and 1991). The Property has been utilized by the City of White Bear Public Works Department since at least the late 1960s. The City moved the majority of their operations to a new location but still uses the Property for storage. The Property is also used by a food shelf, a sail boat sail repair business, and by a boat storage business. The property contains 19.74 acres, the majority of which is wetland. A Site Diagram is provided as **Figure 2**.

### 2.2 PREVIOUS ENVIRONMENTAL INVESTIGATION

A Phase I Environmental Site Assessment (ESA) was previously completed for the Property by Peer and the results were documented in a report entitled: *Phase I Environmental Site Assessment, 1522 Whitaker Street, White Bear Lake, Minnesota*, dated June 12, 2013. The Phase I ESA was performed in accordance with the ASTM “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process”, Designation: E-1527-05. The purpose of the Phase I ESA was to provide an independent, professional opinion of any Recognized Environmental Conditions (RECs) and/or potential environmental liabilities associated with the Property.

The Phase I ESA indicated the Property has been developed since at least 1937, and past business operations included a vehicle maintenance garage that likely used hazardous substances and/or petroleum products. A 1968 building permit noted the presence of a “cesspool” suggesting the Property was not originally connected to the city sewer system. Additional historical information reviewed during completion of the Phase I ESA indicates the Property is listed on the unpermitted dump database as “White Bear Lake City Dump” and as “White Bear Lake Public Works Lime Sludge Dump”. The reviewed information also suggests the Property has been used by the City as a storage location for street sweepings and water main excavation spoils. Based on the Phase I ESA results, a Phase II Investigation was recommended to evaluate the Property for potential soil contamination and groundwater and/or soil gas impacts associated with past land use activities that could impact future redevelopment.

A pre-renovation hazardous materials survey was also completed for the Property by Peer and documented in a report entitled: *Pre-Demolition Hazardous Materials Survey, 1522 Whitaker Street, White Bear Lake, Minnesota*, dated May 16, 2014 (HazMat Survey). The HazMat Survey identified asbestos-containing materials (ACM) and other incidental hazardous materials in the building that require removal prior to demolition.

## 2.3 FUTURE REDEVELOPMENT PLANS

There are currently no specific development plans for the Property. Ramsey County has indicated that future redevelopment of the Property will likely be for office or commercial purposes.

## 3.0 PHASE II INVESTIGATION

### 3.1 OVERVIEW

The Phase II Investigation was conducted in accordance with the 2013 SAP and included the following general elements:

- ◆ Advancing twelve soil borings at the Property.
- ◆ Collecting soil samples from the borings for field observations (visual and olfactory), field screening of organic vapors using a photoionization detector (PID), and laboratory analysis.
- ◆ Installing temporary monitoring wells in selected soil borings to facilitate collecting groundwater samples for laboratory analysis.
- ◆ Installing two temporary soil gas sampling points and collecting soil gas samples for laboratory analysis.

Methods and procedures utilized during this Phase II Investigation were consistent with the QAPP. Investigation location coordinates were measured using a hand held GPS unit and are presented in **Appendix A**. Investigation locations are shown on **Figure 2**.

### 3.2 SOIL BORINGS

Twelve soil borings (GP-1 through GP-12) were completed at the Property on December 26 and 27, 2013. The soil borings were completed to depth of 12 feet below ground surface (bgs) using a truck-mounted hydraulically powered direct-push probe drill rig. Bergerson Caswell, Inc. (Bergerson) of Maple Plain, Minnesota provided drilling services. Soil boring logs documenting encountered subsurface conditions and other pertinent information are included in **Appendix B**.

Soil samples were collected continuously from each soil boring and were screened for organic vapors using a MiniRAE PID equipped with a 10.6 eV lamp. Representative soil samples were also collected and submitted for analytical testing as specified in the 2013 SAP and described in **Section 3.5**.

### 3.3 GROUNDWATER SAMPLING

Temporary monitoring wells were installed in six soil borings (GP-1, GP-3, GP-5, GP-7, GP-9 and GP-12) using  $\frac{3}{4}$ " diameter PVC screen and riser material. The static water level was measured in the temporary wells at depths ranging from 1.9 feet bgs (GP-7) and 6.4 feet bgs (GP-12). Groundwater samples were collected from the temporary wells using dedicated polyethylene tubing equipped with a check valve. Groundwater samples were submitted for analytical testing as specified in **Section 3.5**.

### 3.4 SOIL GAS SAMPLING

Temporary soil gas sampling points GP-13 and GP-14 were installed by Bergerson on December 27, 2013. The soil gas points consisted of an expendable sampling screen installed to a depth of three feet bgs using a hydraulically-powered direct-push probe drill rig. Each sampling screen was connected to a one-liter Summa canister using new disposable polyethylene tubing. A soil gas sample was collected from each point and submitted for analytical testing as specified in **Section 3.5**. No soil samples were collected during installation of the temporary soil gas sampling points.

### 3.5 ANALYTICAL TESTING

The soil, groundwater, and soil gas samples collected during this investigation were submitted to Pace Analytical Services, Inc. (Pace) of Minneapolis, Minnesota for analysis. The samples were analyzed for a combination of the following parameters:

#### *Soil Samples*

- ♦ Volatile organic compounds (VOCs) by EPA Method 8260.
- ♦ Polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270.
- ♦ Polychlorinated biphenyls (PCBs) by EPA Method 8082.

- ◆ Diesel range organics (DRO) by Wisconsin Modified DRO Method and DRO with Silica Gel Cleanup.
- ◆ Resource Conservation and Recovery Act (RCRA) metals by EPA Methods 6010 and 7471.

*Groundwater Samples*

- ◆ VOCs by EPA Method 8260.
- ◆ DRO by Wisconsin Modified DRO Method and DRO with Silica Gel Cleanup.

*Soil Gas Samples*

- ◆ VOCs by EPA Method TO-15.

For quality assurance/quality control (QA/QC) purposes, one field duplicate soil sample, one field duplicate groundwater sample and one soil trip blank were submitted for analysis. In addition, one soil sample and one groundwater sample were submitted for Matrix Spike/Matrix Spike Duplicate (MS/MSD) analysis. All environmental samples, including the QA/QC samples, were collected and analyzed in accordance with the laboratory methods and applicable target detection levels presented in the QAPP. A summary of the samples collected and analyzed during the Phase II Investigation is included in **Table 1**.

## 4.0 INVESTIGATION RESULTS

### 4.1 SUBSURFACE OBSERVATIONS

Soil borings completed during this Phase II Investigation encountered fill soil underlain by native deposits of peat and fine sand at some locations. The fill soil consisted of fine to coarse sand and silty sand with little gravel and intermixed debris identified in several of the soil borings. The fill soil ranged in thickness from 4 to 8 feet. Debris types observed in the fill soil included a piece of glass and woodchips in GP-1, wood pieces in GP-2, concrete rubble in GP-10, and woodchips in GP-11.

Organic vapor screening results are summarized in the soil boring logs included in **Appendix B**. In summary, a PID reading of 34 parts per million (ppm) was measured in GP-2 at the 6 to 8 foot interval. As indicated in **Table 1**, soil sample WH-SB-GP-2 (6-8') was collected from this location/interval for laboratory analysis. All other PID readings from the soil boring samples ranged from 0.1 ppm to 8.8 ppm and appeared consistent with background readings.

Groundwater was encountered in all of the soil borings with static water level measurements ranging from 1.9 feet to 6.4 feet bgs. A possible petroleum “sheen” was observed in the groundwater sample collected from boring GP-2 at 2 feet bgs.

## 4.2 ANALYTICAL RESULTS

### 4.2.1 Soil Analytical Results

Fourteen (14) soil samples, including one field duplicate soil sample and one soil sample for MS/MSD, were submitted for laboratory analysis during this Phase II Investigation. The field duplicate soil sample was WH-SB-GP-12 (2-4')-FD. The MS/MSD soil sample was WH-SB-GP-6 (2-4') and was analyzed for VOCs, DRO, PAHs, PCBs and RCRA Metals. The soil analytical results are presented in **Table 2**. For comparison purposes, **Table 2** also lists the Residential and Industrial Soil Reference Values (SRVs) and the Screening Soil Leaching Values (SLVs) established by the MPCA. Copies of the laboratory analytical reports and chain-of-custody forms are included in **Appendix C**.

The reported results for the original soil sample WH-SB-GP-12 (2-4') and the reported results for the corresponding field duplicate are included in **Table D-1, Appendix D** and are discussed in **Section 4.3**. The following observations are provided regarding the soil analytical results:

- ♦ VOCs were not detected at concentrations exceeding laboratory reporting limits in any of the soil samples analyzed, with the exception of WH-SB-GP-2 (6-8') in which several VOCs were detected at concentrations below the respective SRVs or SLVs.
- ♦ PAHs were detected at concentrations above the laboratory reporting limits in 10 of the soil samples analyzed. Two soil samples had a calculated benzo(a)pyrene equivalent (BaP) concentration above the established Residential SRV and SLV. Soil sample WH-SB-GP-5 (2-4') had a BaP concentration of 2.5 mg/kg and sample WH-SB-GP-6 (2-4') had a BaP concentration of 2.7 mg/kg, which exceed the Residential SRV of 2 mg/kg and the SLV of 1.4 mg/kg.
- ♦ PCBs were detected at concentrations above the laboratory reporting limits in one soil sample. The total PCB concentration in sample WH-SB-GP-12 (2-4') of 0.21 mg/kg exceeds the SLV of 0.13 mg/kg.
- ♦ Selenium was detected at a concentration equal to or above the SLV of 2.6 mg/kg in several of the soil samples analyzed. All other individual metals detected in the soil samples were identified at concentrations typical of naturally occurring soil.
- ♦ DRO was detected in 11 of the soil samples at concentrations ranging from 25.1 mg/kg to 605 mg/kg, with DRO concentrations exceeding 100 mg/kg in seven of the samples. There are no established SRV or SLV for DRO; however, the MPCA has established a DRO concentration of 100 mg/kg as a threshold criterion for classifying soil as unregulated fill<sup>1</sup> (i.e., soil with DRO concentrations above 100 mg/kg are considered to be regulated fill material if excavated for development).

---

<sup>1</sup> Best Management Practices for the Off-Site Reuse of Unregulated Fill, February 2012, prepared by the Minnesota Pollution Control Agency.

- ♦ Four soil samples with elevated DRO concentrations were reanalyzed using the DRO with silica gel cleanup method. This method reduces the potential for false positive results for DRO caused by naturally occurring organics. The samples analyzed using the silica gel cleanup method included WH-SB-GP-1 (2-4'), WH-SB-GP-3 (2-4'), WH-SB-GP-8 (2-4') and WH-SB-GP-12 (2-4'). In summary, the silica gel cleanup yielded only slightly lower results in three of the four samples analyzed. Based on these results, the DRO detections in the soil samples do not appear to be associated with naturally occurring organics.

#### 4.2.2 Groundwater Analytical Results

Six groundwater samples, one field duplicate groundwater sample, and one groundwater sample for MS/MSD were collected and submitted for laboratory analysis. The field duplicate groundwater sample was WH-SW-GP-5-FD. The MS/MSD groundwater sample was WH-SW-GP-12 and was analyzed for VOCs and DRO. The groundwater analytical results are presented in **Table 3**. For comparison purposes, **Table 3** also lists the Minnesota Department of Health (MDH) Health Risk Limits (HRL). Copies of the laboratory analytical reports and chain-of-custody forms are included in **Appendix C**.

The reported results for the original groundwater sample WH-SW-GP-5 and the reported results for the corresponding field duplicate are included in **Table D-2**, **Appendix D** and are discussed in **Section 4.3**.

The following observations are provided regarding the groundwater analytical results:

- ♦ Several individual VOCs were detected at concentrations above the laboratory reporting limits in groundwater samples WH-SW-GP-3, WH-SW-GP-5, WH-SW-GP-9 and WH-SW-GP-12. All of the detected VOCs were below the respective HRLs with the exception of benzene at 2.2 micrograms per liter ( $\mu\text{g}/\text{L}$ ) in WH-SW-GP-3, which exceeds the HRL of 2  $\mu\text{g}/\text{L}$ , and cis-1,2-dichloroethene (cis-1,2-DCE) at 66.2  $\mu\text{g}/\text{L}$  in WH-SW-GP-9, which exceeds the HRL of 50  $\mu\text{g}/\text{L}$ .
- ♦ DRO was detected in all 6 groundwater samples at concentrations ranging from 145  $\mu\text{g}/\text{L}$  to 1,560  $\mu\text{g}/\text{L}$ . The six groundwater samples were re-analyzed for DRO using the silica gel cleanup method. Following the silica gel cleanup, DRO was not detected above the laboratory reporting limit in five of the six groundwater samples, and was significantly reduced in the remaining sample. Based on this data, the DRO detections in the groundwater samples appears to be associated with naturally occurring organics. It is noted that DRO was detected at a concentration of 280  $\mu\text{g}/\text{L}$  in sample WH-SW-GP-12 after the silica gel cleanup which still exceeds the MDH provisional Health Based Value (HBV) of 200  $\mu\text{g}/\text{L}$ .

#### 4.2.3 Soil Gas Analytical Results

Two soil gas samples were submitted for laboratory analysis during this Phase II Investigation. The soil gas analytical results are presented in **Table 4**. For comparison purposes, **Table 4** also lists the Residential and Industrial Intrusion Screening Value (ISVs) established by the MPCA. Copies of the laboratory analytical reports and chain-of-custody forms are included in **Appendix C**.

Measurable concentrations of various VOCs were detected in both soil gas samples collected. Several VOC concentrations were detected slightly above the established Residential ISVs, but below the respective 10 times Residential ISVs. According to the MPCA Vapor Intrusion Guidance Document, soil gas concentrations less than 10 times the ISV are not considered a vapor intrusion risk.

### 4.3 DATA QUALITY ASSESSMENT

Peer conducted a review of the quality assurance (QA) objectives related to the Phase II Investigation as described in **Appendix D**. The review concluded that all QA objectives established for the Project and documented within the QAPP have been achieved.

### 5.0 SUMMARY AND CONCLUSIONS

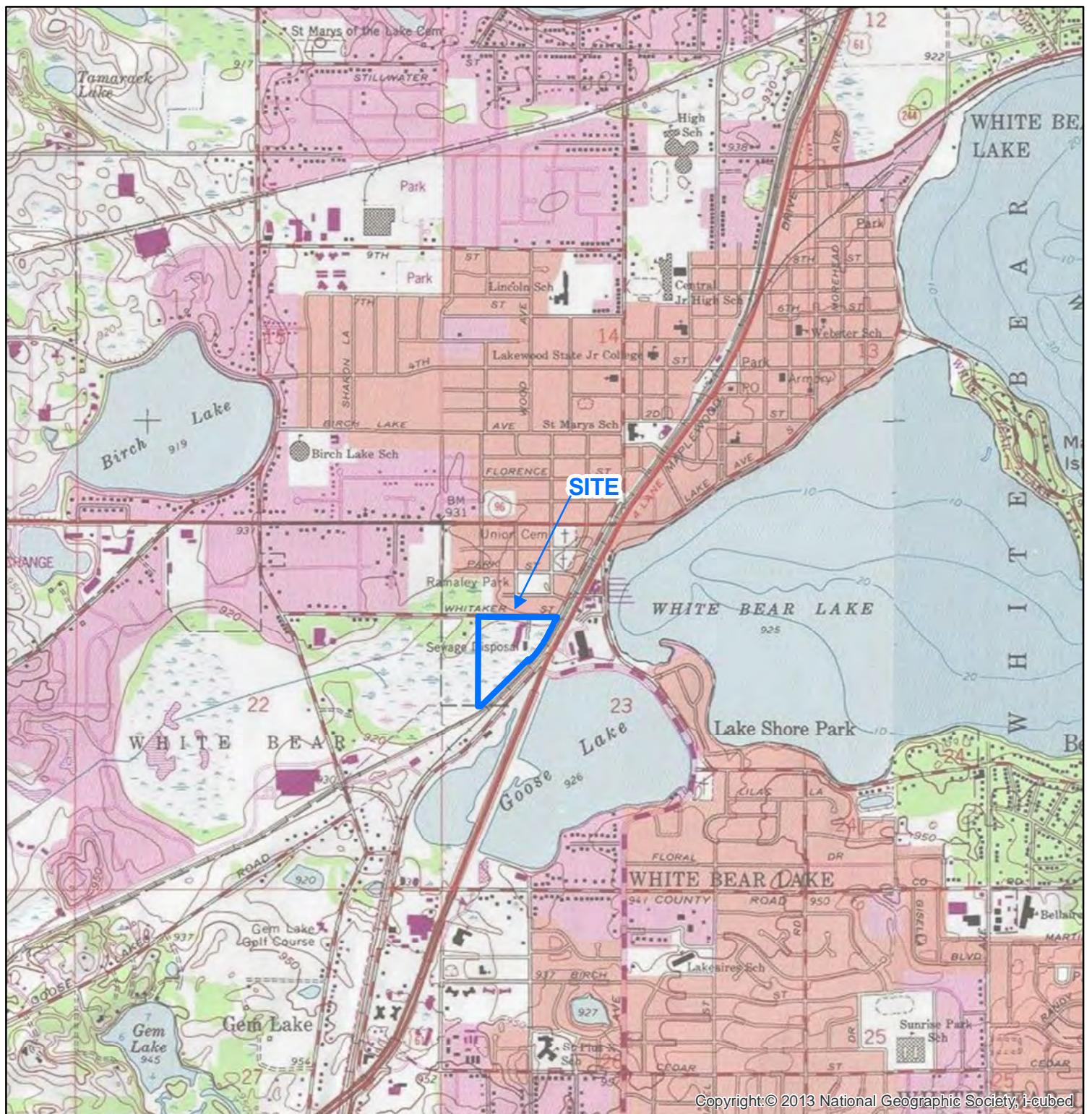
This Phase II Investigation was completed to evaluate the Property for potential soil, groundwater and soil gas contamination that could affect future redevelopment. Ramsey County has indicated that future redevelopment of the Property will likely be for office or commercial purposes. The following conclusions are provided based on the results of the Phase II Investigation and in consideration of the planned future redevelopment:

- ♦ **Fill Soil**: The soil borings completed at the Property encountered fill soil with intermixed debris (i.e. glass, wood, woodchips, and concrete) underlain by native deposits of peat and fine sand (at some locations). The fill soil ranged in thickness from 4 to 8 feet bgs. DRO was detected at concentrations exceeding 100 mg/kg in seven of the fill soil samples analyzed, which exceeds the MPCA's criterion for classifying soil as unregulated fill material. BaP, PCBs and selenium were also detected in one or more of the fill soil samples at concentrations above the established Residential SRV or SLV. Based on the investigation data, the fill soil at the Property (if excavated for redevelopment) will need to be properly managed as regulated fill material in accordance with MPCA guidelines. Once development plans are finalized, additional Phase II investigation may be prudent at the Property to characterize the fill soil beneath the proposed structures which will likely require excavation and management during construction.

- ♦ **Groundwater:** Groundwater was encountered in the soil borings at depths ranging from 1.9 to 6.4 feet bgs. Two individual VOCs (benzene and cis-1,2-DCE) and DRO were detected in one or more of the groundwater samples at concentrations exceeding established regulatory standards. If dewatering is necessary for redevelopment, appropriate permits should be obtained to discharge the water to the storm sewer or sanitary sewer, as appropriate. Any necessary monitoring and testing required by the discharge permits should be conducted.
- ♦ **Soil Gas:** No evidence of significant subsurface soil gas impacts were detected. Measurable concentrations of various VOCs were detected in both soil gas samples collected. Several VOC concentrations were detected slightly above the established Residential ISVs, but below the respective 10 times Residential ISVs. According to the MPCA Vapor Intrusion Guidance Document, soil gas concentrations less than 10 times the ISV are not considered a risk and, in general, no additional action is necessary. Based on the available soil gas data, the vapor intrusion risk to the current or future building structures appears low. Recommendations for installation of vapor controls for future buildings at the Property do not appear warranted at this time.

A Response Action Plan (RAP) should be prepared for the Property prior to redevelopment. The RAP should include requirements for managing potential contaminated soil and groundwater encountered during development, and should include a construction contingency plan to address unforeseen environmental issues. The RAP should also address requirements for removing regulated ACM and incidental hazardous materials from the Property building prior to demolition (as outlined in the HazMat Report prepared under separate cover). The RAP should be submitted to both the MPCA Voluntary Investigation and Cleanup (VIC) and Petroleum Brownfields (PB) Programs for their review and approval prior to the start of construction.

## **FIGURES**



## MAP LOCATION

N

A scale bar with three segments. The first segment is black and labeled "0". The second segment is white and labeled "1,000". The third segment is black and labeled "2,000". To the right of the scale bar, the word "Feet" is written.



## SITE LOCATION MAP

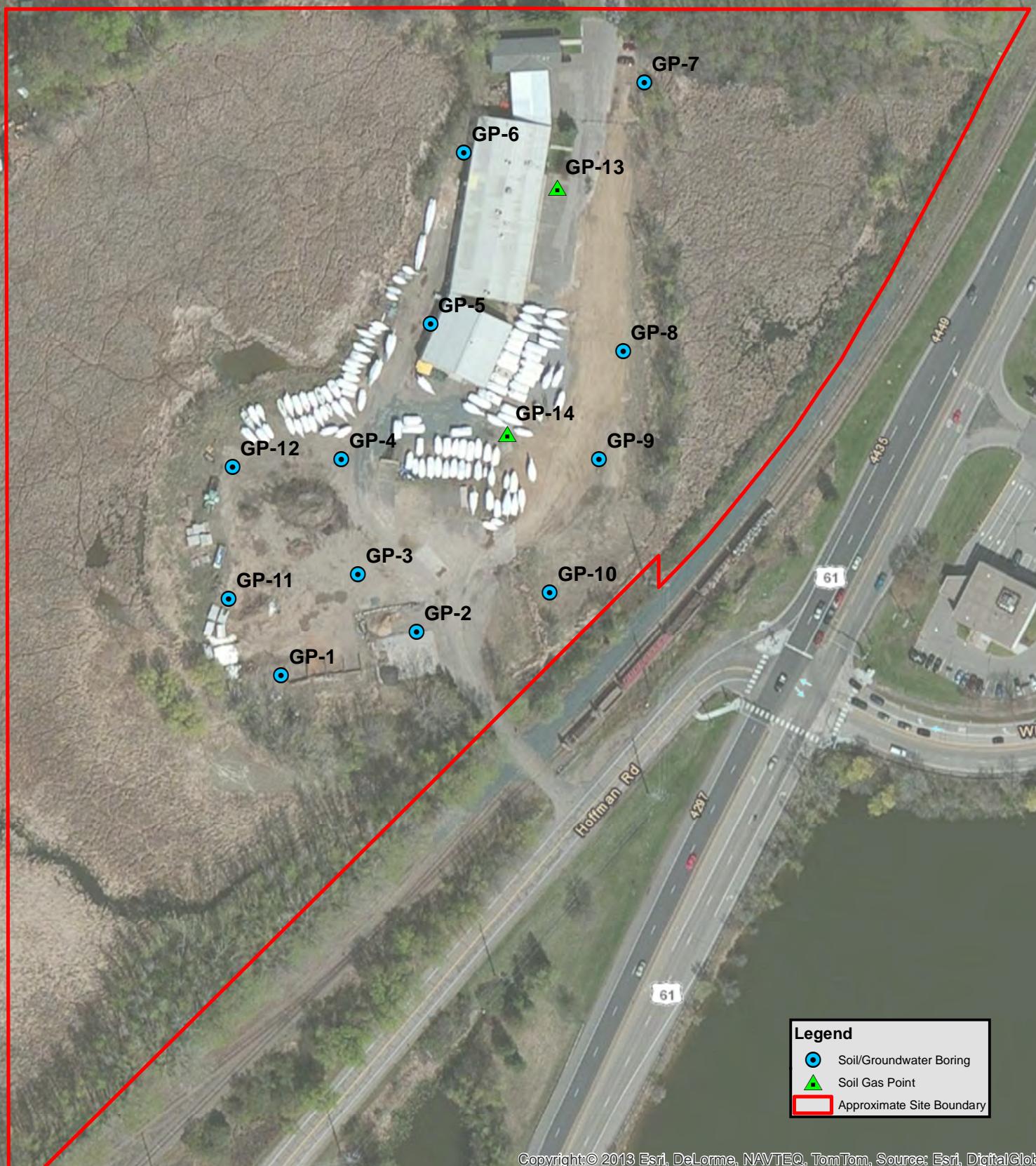
MAY 2014

22056/22056.06/22056.06 Figure 1.mxd

PROJECT # 22056.10

1522 WHITAKER STREET  
WHITE BEAR LAKE, RAMSEY COUNTY, MINNESOTA

# FIGURE 1

**Legend**

- Soil/Groundwater Boring

- ▲ Soil Gas Point

- Approximate Site Boundary

Copyright © 2013 Esri, DeLorme, NAVTEQ, TomTom, Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

0 150 Feet



Aerial basemap taken from ESRI basemaps. Imagery, Source: AEX, Minneapolis2009, Date: 9/15/2009. City boundary data obtained from MetroGIS DataFinder Catalog, County, City and Townships, Twin Cities Metropolitan Area, updated 4/24/2012. Parcel data obtained from MetroGIS DataFinder Catalog, Regional Parcel Dataset-Year End 2008, 7 County Twin Cities Metropolitan Area, updated 2/24/2012.

22056/1522 Whitaker Street, White Bear Lake, MN.mxd



PROJECT # 22056

SITE DIAGRAM

MAY 2014

1522 WHITAKER STREET  
WHITE BEAR LAKE, RAMSEY COUNTY, MINNESOTA

FIGURE  
2

## **TABLES**

**Table 1**  
**Samples and Laboratory Analysis**  
**1522 Whitaker Street**  
**White Bear Lake, MN**

Sample Location/ Depth	Matrix	Depth	Purpose of Sample at Location	Laboratory Analytical Test
WH-SB-GP-1 (2-4')	Soil	2-4'	Shallow soil in former wetland area.	VOCs, PAHs, RCRA Metals, DRO, PCBs
WH-SB-GP-2 (2-4')	Soil	2-4'	Shallow soil near former structure.	VOCs, PAHs, RCRA Metals, DRO, PCBs
WH-SB-GP-2 (6-8')	Soil	6-8'	Deeper soil near former structure.	VOCs, PAHs, RCRA Metals, DRO, PCBs
WH-SB-GP-3 (2-4')	Soil	2-4'	Shallow soil in former wetland area.	VOCs, PAHs, RCRA Metals, DRO, PCBs
WH-SB-GP-4 (6-8')	Soil	6-8'	Deeper soil in former wetland area.	VOCs, PAHs, RCRA Metals, DRO, PCBs
WH-SB-GP-5 (2-4')	Soil	2-4'	Potential tank area near main structure.	VOCs, PAHs, RCRA Metals, DRO, PCBs
WH-SB-GP-6 (2-4') *	Soil	2-4'	Shallow soil in former wetland area.	VOCs, PAHs, RCRA Metals, DRO, PCBs
WH-SB-GP-7 (6-8')	Soil	6-8'	Deeper soil in former wetland area.	VOCs, PAHs, RCRA Metals, DRO, PCBs
WH-SB-GP-8 (2-4')	Soil	2-4'	Shallow soil near former structure.	VOCs, PAHs, RCRA Metals, DRO, PCBs
WH-SB-GP-9 (6-8')	Soil	6-8'	Deeper soil near former structure.	VOCs, PAHs, RCRA Metals, DRO, PCBs
WH-SB-GP-10 (2-4')	Soil	2-4'	Shallow soil in former wetland area.	VOCs, PAHs, RCRA Metals, DRO, PCBs
WH-SB-GP-11 (6-8')	Soil	6-8'	Deeper soil in former wetland area.	VOCs, PAHs, RCRA Metals, DRO, PCBs
WH-SB-GP-12 (2-4')	Soil	2-4'	Shallow soil in former wetland area.	VOCs, PAHs, RCRA Metals, DRO, PCBs
WH-SB-GP-12 (2-4')-FD	Soil	Same as original	Field duplicate of WH-SB-GP-12 (2-4').	VOCs, PAHs, RCRA Metals, DRO, PCBs
<b>Total number of soil samples</b>	<b>14</b>			
WH-SB-TB	Methanol Only	NA	Soil (methanol) trip blank.	VOCs
WH-SW-GP-1	Water	6.0'	Provides general site coverage.	VOCs, DRO
WH-SW-GP-3	Water	4.3'	Provides general site coverage.	VOCs, DRO
WH-SW-GP-5	Water	3.1'	Provides general site coverage.	VOCs, DRO
WH-SW-GP-7	Water	1.9'	Provides general site coverage.	VOCs, DRO
WH-SW-GP-9	Water	2.4'	Provides general site coverage.	VOCs, DRO
WH-SW-GP-12 *	Water	6.4'	Provides general site coverage.	VOCs, DRO
WH-SW-GP-5-FD	Water	3.1'	Field duplicate of WH-SW-GP-5.	VOCs, DRO
<b>Total number of water samples</b>	<b>7</b>			
WH-SG-GP-13	Air	3'	Evaluate soil gas near existing north building.	VOCs
WH-SG-GP-14	Air	3'	Evaluate soil gas near existing south building.	VOCs
<b>Total number of air samples</b>	<b>2</b>			

**Notes:**

WH - 1522 Whitaker Street  
SB - Subsurface soil sample  
SW - Subsurface water sample  
SG - Soil gas sample  
GP - Sampling Probe  
FD - Field Duplicate

\* MS/MSD - Additional sample volume collected to allow laboratory to run Matrix Spike/Matrix Spike Duplicate (MS/MSD) analysis.

**Table 2**  
**Soil Analytical Results**  
**1522 Whitaker Street**  
**White Bear Lake, Minnesota**

Compound/Parameter	CAS No.	Sample Identifier and Date Collected												Residential Soil Reference Value (SRV)	Industrial Soil Reference Value (SRV)	Screening Soil Leaching Value (SLV)	
		WH-SB-GP-1 (2-4')	WH-SB-GP-2 (2-4')	WH-SB-GP-2 (6-8')	WH-SB-GP-3 (2-4')	WH-SB-GP-4 (6-8')	WH-SB-GP-5 (2-4')	WH-SB-GP-6 (2-4')	WH-SB-GP-7 (6-8')	WH-SB-GP-8 (2-4')	WH-SB-GP-9 (6-8')	WH-SB-GP-10 (2-4')	WH-SB-GP-11 (6-8')				
		12/26/2013	12/26/2013	12/26/2013	12/26/2013	12/26/2013	12/27/2013	12/27/2013	12/26/2013	12/26/2013	12/26/2013	12/26/2013	12/26/2013				
<b>Volatile Organic Compounds (VOCs) reported in mg/kg</b>																	
n-Butylbenzene	104-51-8	ND(0.058)	ND(0.053)	<b>0.22</b>	ND(0.053)	ND(0.067)	ND(0.059)	ND(0.054)	ND(0.058)	ND(0.059)	ND(0.056)	ND(0.059)	ND(0.060)	ND(0.053)	30	92	NE
sec-Butylbenzene	135-98-8	ND(0.058)	ND(0.053)	<b>0.26</b>	ND(0.053)	ND(0.067)	ND(0.059)	ND(0.054)	ND(0.058)	ND(0.059)	ND(0.056)	ND(0.059)	ND(0.060)	ND(0.053)	25	70	NE
Isopropylbenzene (Cumene)	98-82-8	ND(0.058)	ND(0.053)	<b>0.082</b>	ND(0.053)	ND(0.067)	ND(0.059)	ND(0.054)	ND(0.058)	ND(0.059)	ND(0.056)	ND(0.059)	ND(0.060)	ND(0.053)	30	87	9.5
4-Isopropyltoluene	99-87-6	ND(0.058)	ND(0.053)	<b>0.19</b>	ND(0.053)	ND(0.067)	ND(0.059)	ND(0.054)	ND(0.058)	ND(0.059)	ND(0.056)	ND(0.059)	ND(0.060)	ND(0.053)	NE	NE	NE
n-Propylbenzene	103-65-1	ND(0.058)	ND(0.053)	<b>0.15</b>	ND(0.053)	ND(0.067)	ND(0.059)	ND(0.054)	ND(0.058)	ND(0.059)	ND(0.056)	ND(0.059)	ND(0.060)	ND(0.053)	30	93	NE
All other VOCs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Various	Various	Various	Various
<b>Polynuclear Aromatic Hydrocarbons (PAHs) reported in mg/kg</b>																	
Acenaphthene	83-32-9	ND(0.11)	ND(0.11)	ND(0.29)	<b>0.26</b>	ND(0.065)	<b>0.4</b>	ND(0.54)	ND(0.012)	ND(0.59)	ND(0.011)	ND(0.058)	ND(0.58)	ND(0.53)	1,200	5,260	NE
Acenaphthylene	208-96-8	ND(0.11)	ND(0.11)	ND(0.29)	ND(0.11)	ND(0.065)	ND(0.29)	ND(0.54)	ND(0.012)	ND(0.59)	ND(0.011)	ND(0.058)	ND(0.58)	ND(0.53)	NE	NE	NE
Anthracene	120-12-7	ND(0.11)	ND(0.11)	ND(0.29)	ND(0.11)	ND(0.065)	<b>1.6</b>	<b>0.98</b>	ND(0.012)	ND(0.59)	ND(0.011)	ND(0.058)	ND(0.58)	ND(0.53)	7,880	45,400	1,300
Benzo(a)anthracene	56-55-3	<b>0.27</b>	ND(0.11)	ND(0.29)	ND(0.11)	ND(0.065)	<b>1.9</b>	<b>1.9</b>	ND(0.012)	ND(0.59)	ND(0.011)	ND(0.058)	ND(0.58)	ND(0.53)	NE	NE	NE
Benzo(a)pyrene	50-32-8	<b>0.27</b>	<b>0.12</b>	ND(0.29)	ND(0.11)	ND(0.065)	<b>1.7</b>	<b>2.0</b>	ND(0.012)	ND(0.59)	ND(0.011)	<b>0.64</b>	ND(0.58)	ND(0.53)	2	3	1.4
Benzo(b)fluoranthene	205-99-2	<b>0.35</b>	<b>0.14</b>	ND(0.29)	ND(0.11)	ND(0.065)	<b>2.0</b>	<b>2.1</b>	ND(0.012)	ND(0.59)	ND(0.011)	<b>0.084</b>	ND(0.58)	ND(0.53)	NE	NE	NE
Benzo(g,h,i)perylene	191-24-2	<b>0.2</b>	<b>0.12</b>	ND(0.29)	ND(0.11)	ND(0.065)	<b>0.96</b>	<b>1.3</b>	ND(0.012)	ND(0.59)	ND(0.011)	ND(0.058)	ND(0.58)	<b>0.62</b>	NE	NE	NE
Benzo(k)fluoranthene	207-08-9	<b>0.12</b>	ND(0.11)	ND(0.29)	ND(0.11)	ND(0.065)	<b>0.71</b>	<b>1.2</b>	ND(0.012)	ND(0.59)	ND(0.011)	ND(0.058)	ND(0.58)	ND(0.53)	NE	NE	NE
Chrysene	218-01-9	<b>0.3</b>	<b>0.2</b>	ND(0.29)	ND(0.11)	ND(0.065)	<b>1.9</b>	<b>2.0</b>	ND(0.012)	ND(0.59)	ND(0.011)	<b>0.08</b>	ND(0.58)	ND(0.53)	NE	NE	NE
Dibenz(a,h)anthracene	53-70-3	ND(0.11)	ND(0.11)	ND(0.29)	ND(0.11)	ND(0.065)	<b>0.3</b>	ND(0.54)	ND(0.012)	ND(0.59)	ND(0.011)	ND(0.058)	ND(0.58)	ND(0.53)	NE	NE	NE
Fluoranthene	206-44-0	<b>0.64</b>	<b>0.21</b>	ND(0.29)	ND(0.11)	ND(0.065)	<b>5.0</b>	<b>4.9</b>	ND(0.012)	<b>0.59</b>	ND(0.011)	<b>0.18</b>	ND(0.58)	<b>0.74</b>	1,080	6,800	670
Fluorene	86-73-7	ND(0.11)	ND(0.11)	ND(0.29)	<b>0.41</b>	ND(0.065)	<b>0.61</b>	ND(0.54)	ND(0.012)	ND(0.59)	ND(0.011)	ND(0.058)	ND(0.58)	ND(0.53)	850	4,120	110
Indeno(1,2,3-cd)pyrene	193-39-5	<b>0.2</b>	ND(0.11)	ND(0.29)	ND(0.11)	ND(0.065)	<b>1.2</b>	<b>1.5</b>	ND(0.012)	ND(0.59)	ND(0.011)	ND(0.058)	ND(0.58)	ND(0.53)	NE	NE	NE
Naphthalene	91-20-3	ND(0.23)	ND(0.21)	ND(0.29)	ND(0.21)	ND(0.27)	ND(0.29)	ND(0.54)	ND(0.23)	ND(0.59)	ND(0.22)	ND(0.24)	ND(0.58)	ND(0.53)	10	28	4.5
Phenanthrene	85-01-8	<b>0.47</b>	<b>0.12</b>	<b>0.88</b>	<b>0.59</b>	<b>0.08</b>	<b>4.6</b>	<b>3.6</b>	ND(0.012)	ND(0.59)	ND(0.011)	ND(0.058)	ND(0.58)	ND(0.53)	NE	NE	NE
Pyrene	129-00-0	<b>0.5</b>	<b>0.26</b>	ND(0.29)	<b>0.21</b>	ND(0.065)	<b>3.7</b>	<b>3.8</b>	ND(0.012)	ND(0.59)	ND(0.011)	<b>0.18</b>	ND(0.58)	<b>0.8</b>	890	5,800	440
BaP Equivalent <sup>c</sup>	NE	0.37	0.14	ND	ND	ND	<b>2.5</b>	<b>2.7</b>	ND	ND	ND	<b>0.07</b>	ND	ND	2	3	1.4
<b>Polychlorinated Biphenyls (PCBs) reported in mg/kg</b>																	
PCB 1016	12674-11-2	ND(0.038)	ND(0.036)	ND(0.039)	ND(0.35)	ND(0.043)	ND(0.038)	ND(0.35)	ND(0.039)	ND(0.19)	ND(0.036)	ND(0.038)	ND(0.19)	ND(0.18)	NE	NE	NE
PCB 1221	11104-28-2	ND(0.038)	ND(0.036)	ND(0.039)	ND(0.35)	ND(0.043)	ND(0.038)	ND(0.35)	ND(0.039)	ND(0.19)	ND(0.036)	ND(0.038)	ND(0.19)	ND(0.18)	NE	NE	NE
PCB 1232	11141-16-5	ND(0.038)	ND(0.036)	ND(0.039)	ND(0.35)	ND(0.043)	ND(0.038)	ND(0.35)	ND(0.039)	ND(0.19)	ND(0.036)	ND(0.038)	ND(0.19)	ND(0.18)	NE	NE	NE
PCB 1242	53469-21-9	ND(0.038)	ND(0.036)	ND(0.039)	ND(0.35)	ND(0.043)	ND(0.038)	ND(0.35)	ND(0.039)	ND(0.19)	ND(0.036)	ND(0.038)	ND(0.19)	ND(0.18)	NE	NE	NE
PCB 1248	12672-29-6	ND(0.038)	ND(0.036)	ND(0.039)	ND(0.35)	ND(0.043)	ND(0.038)	ND(0.35)	ND(0.039)	ND(0.19)	ND(0.036)	ND(0.038)	ND(0.19)	ND(0.18)	NE	NE	NE
PCB 1254	11097-69-1	ND(0.038)	ND(0.036)	ND(0.039)	ND(0.35)	ND(0.043)	ND(0.038)	ND(0.35)	ND(0.039)	ND(0.19)	ND(0.036)	ND(0.038)	ND(0.19)	<b>0.21</b>	NE	NE	NE
PCB 1260	11096-82-5	ND(0.038)	ND(0.036)	ND(0.039)	ND(0.35)	ND(0.043)	ND(0.038)	ND(0.35)	ND(0.039)	ND(0.19)	ND(0.036)	ND(0.038)	ND(0.19)	ND(0.18)	NE	NE	NE
PCB 1268	37324-23-5	ND(0.038)	ND(0.036)	ND(0.039)	ND(0.35)	ND(0.043)	ND(0.038)	ND(0.35)	ND(0.039)	ND(0.19)	ND(0.036)	ND(0.038)	ND(0.19)	ND(0.18)	NE	NE	NE
Total reported PCBs	1336-36-3	ND(0.038)	ND(0.036)	ND(0.039)	ND(0.35)	ND(0.043)	ND(0.038)	ND(0.35)	ND(0.039)	ND(0.19)	ND(0.036)	ND(0.038)	ND(0.19)	<b>0.21</b>	1.2	8	0.13
<b>Metals reported in mg/kg</b>																	
Arsenic, Total	7440-38-2	ND(1.0)	ND(1.1)	ND(1.1)	<b>1.9</b>	ND(5.3)	<b>1.5</b>	ND(1.0)	<b>1.9</b>	<b>1.2</b>	<b>2.4</b>	<b>1.9</b>	ND(0.94)	ND(1.0)	9	20	5.8
Barium, Total	7440-39-3	<b>36.7</b>	<b>43.3</b>	<b>55.2</b>	<b>26.0</b>	<b>50.9</b>	<b>36.6</b>	<b>36.0</b>	<b>26.6</b>	<b>42.8</b>	<b>10.6</b>	<b>79.8</b>	<b>40.7</b>	<b>28.8</b>	1,100	18,000	1,700
Cadmium, Total	7440-43-9	ND(0.15)	ND(0.16)	<b>0.28</b>	ND(0.16)	ND(0.79)	ND(0.15)	ND(0.15)	ND(0.17)	ND(0.17)	ND(0.82)	<b>0.5</b>	<b>0.2</b>	ND(0.15)	25	200	8.8
Chromium, Total	7440-47-3	<b>14.5</b>	<b>14.5</b>	<b>7.6</b>	<b>12.3</b>	<b>5.7</b>	<b>10.9</b>	<b>11.6</b>	<b>6.6</b>	<b>8.9</b>	<b>3.0</b>	<b>12.4</b>	<b>11.3</b>	<b>14.2</b>	NE	NE	NE
Lead, Total	7439-92-1	<b>53.3</b>	<b>31.6</b>	<b>83.1</b>	<b>37.5</b>	<b>210</b>	<b>32.8</b>	<b>57.7</b>	<b>1.5</b>	<b>13.7</b>	<b>14.0</b>	<b>85.3</b>	<b>77.6</b>	<b>142</b>	300	700	2,700
Mercury, Total	7439-97-6	ND(0.020)	ND(0.022)	<b>0.11</b>	ND(0.019)	ND(0.025)	<b>0.11</b>	<b>0.02</b>	ND(0.023)	<b>0.033</b>	ND(0.020)	<b>0.27</b>	<b>0.03</b>	<b>0.059</b>	0.5	1.5	3.3
Selenium, Total	7782-49-2	<b>4.1</b>	<b>3.0</b>	<b>2.7</b>	<b>3.1</b>	<b>6.7</b>	<b>2.7</b>	ND(0.77)	ND(0.83)	<b>2.8</b>	<b>8.5</b>	<b>3.1</b>	<b>2.1</b>	<b>2.6</b>	160	1,300	2.6
Silver, Total	7440-22-4	ND(0.50)	ND(0.54)	ND(0.55)	ND(0.53)	ND(2.6)	ND(0.49)	ND(0.51)	ND(0.55)	ND(0.57)	ND(2.7)	<b>0.96</b>	ND(0.47)	ND(0.51)	160	1,300	7.9
<b>Other Parameters reported in mg/kg</b>																	
Diesel Range Organics (DRO)	NE	<b>115</b>	<b>47.0</b>	<b>605</b>	<b>331</b>	<b>43.1</b>	<b>25.1</b>	<b>102</b>	ND(9.4)	<b>154</b>	ND(9.5)	<b>63.9</b>	<b>124</b>	<b>127</b>	NE	NE	NE
DRO with Silica Gel Cleanup	NE	75.2	NA	NA	283	NA	NA	NA	NA	166	NA	NA	NA	<b>107</b>	NE	NE	NE

**Notes:**

mg/kg = milligrams per

liter

ND = Not detected at or above laboratory reporting limits indicated in parentheses.

NA = Sample not analyzed for this parameter.

NE = Regulatory Limit not established for this parameter.

<sup>c</sup> Benzo(a)pyrene (BaP) equivalent is a calculated value based on the weighted concentration and toxicity of the following compounds:

benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

Exceeds Residential SRV

Result exceeds MPCA criteria for off-site reuse of unregulated fill (i.e., VOC, SVOC, PCB, or metal concentration ≥ SRV or SLV except for naturally occurring concentrations of arsenic, selenium or copper or DRO or GRO concentrations ≥ 100 mg/kg).

**Table 3**  
**Groundwater Analytical Results**  
**1522 Whitaker Street**  
**White Bear Lake, Minnesota**

Compound/Parameter	CAS No.	Sample ID, Water Depth (fbgs), and Date Collected						Health Risk Limit (HRL) ug/L	
		WH-SW-GP-1	WH-SW-GP-3	WH-SW-GP-5	WH-SW-GP-7	WH-SW-GP-9	WH-SW-GP-12		
		6.0'	4.3'	3.1'	1.9'	2.4'	6.4'		
		12/26/2013	12/26/2013	12/27/2013	12/26/2013	12/26/2013	12/26/2013		
<b>Volatile Organic Compounds (VOCs) reported in ug/L</b>									
Acetone	67-64-1	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (1000)	<b>31.9</b>	4,000	
Benzene	71-43-2	ND (1.0)	<b>2.2</b>	ND (1.0)	ND (1.0)	ND (50.0)	ND (1.0)	2	
2-Butanone (MEK)	78-93-3	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (250)	<b>5.6</b>	4,000	
Dichlorodifluoromethane	75-71-8	ND (1.0)	ND (1.0)	<b>2.0</b>	ND (1.0)	ND (50.0)	ND (1.0)	700	
cis-1,2-Dichloroethene	156-59-2	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	<b>66.2</b>	ND (1.0)	50	
Ethyl Ether	60-29-7	ND (4.0)	<b>25.8</b>	ND (4.0)	ND (4.0)	ND (200)	ND (4.0)	1,000	
Ethylbenzene	100-41-4	ND (1.0)	<b>2.1</b>	ND (1.0)	ND (1.0)	ND (50.0)	ND (1.0)	50	
Naphthalene	91-20-3	ND (4.0)	ND (4.0)	ND (4.0)	ND (4.0)	ND (200)	<b>6.2</b>	300	
Toluene	108-88-3	ND (1.0)	<b>2.2</b>	ND (1.0)	ND (1.0)	ND (50.0)	ND (1.0)	200	
Total Xylenes	1330-20-7	ND (3.0)	<b>4.9</b>	ND (3.0)	ND (3.0)	ND (150)	ND (3.0)	300	
<b>Other Parameters reported in ug/L</b>									
Diesel Range Organics (DRO)	NE	<b>576</b>	<b>1,030</b>	<b>210</b>	<b>278</b>	<b>145</b>	<b>1,560</b>	200 <sup>a</sup>	
DRO with Silica Gel Cleanup	NE	ND (110)	ND (110)	ND (110)	ND (110)	ND (110)	<b>280</b>	200 <sup>a</sup>	

**Notes:**

ug/L = Micrograms per liter.

ND = Not detected at or above the laboratory reporting limit indicated in parentheses.

Depth (fbgs) = feet below ground surface.

NE = Regulatory limit not established for this parameter.

<sup>a</sup> = Provisional MDH Health Based Value (HBV) for total petroleum hydrocarbons (sum of DRO and GRO).

**Exceeds Health Risk Limit or HBV**

**Table 4**  
**Soil Gas Analytical Results**  
**1522 Whitaker Street**  
**White Bear Lake, Minnesota**

Compound/Parameter	CAS No.	Sample ID, Depth (ft), and Date Collected				Residential Intrusion Screening Value (ISV) ug/m <sup>3</sup>	10x Residential ISV ug/m <sup>3</sup>	100x Residential ISV ug/m <sup>3</sup>	Industrial Intrusion Screening Value (ISV) ug/m <sup>3</sup>	10x Industrial ISV ug/m <sup>3</sup>	100x Industrial ISV ug/m <sup>3</sup>						
		WH-SG-GP-13		WH-SG-GP-14													
		3'		3'													
		12/27/2013		12/27/2013													
		Result	Report Limit	Result	Report Limit												
<b>Minnesota Soil Gas List reported in ug/m<sup>3</sup></b>																	
Acetone	67-64-1	33.2	0.9	63.7	0.9	31,000	310,000	3,100,000	87,000	870,000	8,700,000						
Benzene	71-43-2	2.0	0.61	9.8	0.61	4.5	45	450	13	130	1,300						
2-Butanone (MEK)	78-93-3	8.2	1.1	17.7	1.1	5,000	50,000	500,000	10,000	100,000	1,000,000						
Carbon disulfide	75-15-0	3.4	1.2	10.6	1.2	700	7,000	70,000	2,000	20,000	200,000						
Carbon tetrachloride	56-23-5	2.1	1.2	2.0	1.2	0.7	7	70	2	20	200						
Chlorobenzene	108-90-7	6.7	1.8	50.3	1.8	50	500	5,000	100	1,000	10,000						
Chloromethane	74-87-3	0.99	0.79	ND(0.79)	0.79	90	900	9,000	300	3,000	30,000						
1,2-Dichlorobenzene	95-50-1	ND(2.3)	2.3	19.0	2.3	200	2,000	20,000	600	6,000	60,000						
1,3-Dichlorobenzene	541-73-1	ND(2.3)	2.3	3.7	2.3	NE	NE	NE	NE	NE	NE						
1,4-Dichlorobenzene	106-46-7	ND(2.3)	2.3	17.0	2.3	60	600	6,000	200	2,000	20,000						
Dichlorofluoromethane	75-71-8	5.9	1.9	ND(1.9)	1.9	200	2,000	20,000	600	6,000	60,000						
Ethanol	64-17-5	17.4	0.71	7.4	0.71	15,000	150,000	1,500,000	42,000	420,000	4,200,000						
Ethylbenzene	100-41-4	2.7	1.6	3.8	1.6	1,000	10,000	100,000	3,000	30,000	300,000						
4-Ethyltoluene	622-96-8	ND(1.9)	1.9	2.9	1.9	NE	NE	NE	NE	NE	NE						
n-Heptane	142-82-5	3.3	1.6	8.0	1.6	NE	NE	NE	NE	NE	NE						
n-Hexane	110-54-3	5.5	1.3	3.9	1.3	2,000	20,000	200,000	6,000	60,000	600,000						
2-Hexanone	591-78-6	ND(1.6)	1.6	2.1	1.6	NE	NE	NE	NE	NE	NE						
Methylene chloride	75-09-2	38.7	1.3	2.3	1.3	20	200	2,000	60	600	6,000						
4-Methyl-2-pentanone (MIBK)	108-10-1	ND(1.6)	1.6	3.1	1.6	3,000	30,000	300,000	8,000	80,000	800,000						
Naphthalene	91-20-3	2.7	2	5.2	2	9	90	900	30	300	3,000						
2-Propanol	67-63-0	ND(0.94)	0.94	6.2	0.94	7,000	70,000	700,000	20,000	200,000	2,000,000						
Propylene	115-07-1	12.0	0.65	28.2	0.65	3,000	30,000	300,000	8,000	80,000	800,000						
Tetrachloroethylene	127-18-4	ND(1.3)	1.3	1.5	1.3	20	200	2,000	60	600	6,000						
Tetrahydrofuran	109-99-9	3.0	1.1	ND(1.1)	1.1	NE	NE	NE	NE	NE	NE						
Toluene	108-88-3	7.2	1.4	140	1.4	5,000	50,000	500,000	10,000	100,000	1,000,000						
Trichloroethene	79-01-6	1.8	1	2.3	1	3	30	300	8	80	800						
Trichlorofluoromethane	75-69-4	2.9	2.1	ND(2.1)	2.1	700	7,000	70,000	2,000	20,000	200,000						
1,2,4-Trimethylbenzene	95-63-6	2.2	1.9	6.4	1.9	7	70	700	20	200	2,000						
m&p-Xylene	179601-23-1	9.5	3.3	12.1	3.3	100	1,000	10,000	300	3,000	30,000						
o-Xylene	95-47-6	3.1	1.6	4.7	1.6	100	1,000	10,000	300	3,000	30,000						
All other reported VOCs	Various	ND	Various	ND	Various	Various	Various	Various	Various	Various	Various						

**Notes:**

ug/m<sup>3</sup> = Micrograms per cubic meter.

ND = Not detected at or above the laboratory reporting limit indicated in parentheses.

NE = Regulatory limit not established for this parameter.

## **APPENDIX A**

**Spatial Data**  
**1522 Whitaker Street**  
**White Bear Lake, Minnesota**

Boring ID	Total Depth (ft)	Temp Well	Field Tech	DateCompleted	Vertical Precision	Horizontal Precision	POINT X	POINT Y	POINT Z
GP-1	12	Yes	JAA	12/26/2013	0.3	0.3	593314.0422700000	203157.39154500000	921.64066982900
GP-2	12	No	JAA	12/26/2013	0.3	0.3	593464.8968200000	203205.96793300000	921.62701613900
GP-3	12	Yes	JAA	12/26/2013	0.3	0.3	593399.52538700000	203270.30683900000	921.97666743700
GP-4	12	No	JAA	12/26/2013	0.3	0.3	593381.02027700000	203398.73904100000	924.54719288400
GP-5	12	Yes	JAA	12/27/2013	0.3	0.3	593480.18873600000	203549.71083600000	921.06540401200
GP-6	12	No	JAA	12/27/2013	0.4	0.4	593517.46681000000	203739.75331500000	921.44763248800
GP-7	12	Yes	JAA	12/26/2013	0.3	0.3	593718.23265000000	203817.99353900000	921.31723859800
GP-8	12	No	JAA	12/26/2013	0.3	0.3	593694.79226400000	203518.81197400000	920.95363022100
GP-9	12	Yes	JAA	12/26/2013	0.3	0.3	593668.01373800000	203398.56102900000	920.89817781500
GP-10	12	No	JAA	12/26/2013	0.3	0.3	593613.06704900000	203250.07164000000	920.82120085700
GP-11	12	No	JAA	12/26/2013	0.3	0.3	593255.62420300000	203243.17936900000	921.98074956500
GP-12	12	Yes	JAA	12/26/2013	0.3	0.3	593259.88531300000	203389.51069600000	923.65555025500
GP-13	3	NA	JAA	12/27/2013	0.3	0.3	593621.49418100000	203701.42774600000	921.67545657200
GP-14	3	NA	JAA	12/27/2013	0.3	0.3	593565.85424800000	203427.19039800000	920.84465047100

Notes:

Ramsey County Coordinate System

Point X = Easting (feet)

Point Y = Northing (feet)

Point Z = Elevation (feet)

## **APPENDIX B**



# BORING LOG

Boring No.: GP-1

Project: 1522 Whitaker

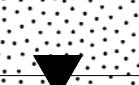
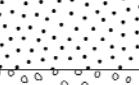
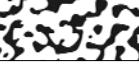
Contractor/Crew: Bergerson					Date Started: 12/26/13	Date Completed: 12/26/13
Drilling Method: Push Probe			Elevation (ft):		Total Depth (ft): 12	Depth to Water (ft): 6
Depth (ft)	Sample Interval	Recovery	PID (ppm)	Description	Profile	Remarks, Lab Samples, etc.
0			6.5	Sand, fine to coarse, moist, dark brown		
2	0-4'	4'	3.2			Soil sample WH-SB-GP-1 (2-4') DRO, VOC, PAH, PCB, RCRA Metals
4			7.5	Sand, fine to medium, moist, brownish black, piece of glass		
6	4-8'	3'	1.8	Clayey sand, fine, moist, brownish black		
8			1.1	Woodchips		Water sample WH-SW-GP-1 DRO, VOC
10	8-12'	1'		Peat, moist, dark brown		
12				End of Boring at 12'		
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
Peer Project Number: 22056			Peer Personnel: JAA		Page 1 of 1	



## BORING LOG

Boring No.: GP-2

Project: 1522 Whitaker

Contractor/Crew: Bergerson				Date Started: 12/26/13	Date Completed: 12/26/13
Drilling Method: Push Probe			Elevation (ft):	Total Depth (ft): 12	Depth to Water (ft): 2
Depth (ft)	Sample Interval	Recovery	PID (ppm)	Description	Profile
0			1.6	Sand, fine to coarse, little fine gravel, moist, dark brown	
2	0-4'	4'	1.5		
4			1.6	Sand, fine to medium, moist, brownish gray	
6	4-8'	2'	34.0	Gravel, fine, wet, black, wood pieces	
8			1.0		
10	8-12'	4'	0.8	Peat, moist, dark brown, plant fibers	
12				End of Boring at 12'	
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					



# BORING LOG

Boring No.: GP-3

Project: 1522 Whitaker

Contractor/Crew: Bergerson					Date Started: 12/26/13	Date Completed: 12/26/13
Drilling Method: Push Probe			Elevation (ft):		Total Depth (ft): 12	Depth to Water (ft): 4.3
Depth (ft)	Sample Interval	Recovery	PID (ppm)	Description	Profile	Remarks, Lab Samples, etc.
0			4.0	Sand, fine to coarse, little fine gravel, moist, dark brown		
2	0-4'	4'	8.8	Sand, fine to coarse, little fine gravel, moist, brownish black		Soil sample WH-SB-GP-3 (2-4') DRO, VOC, PAH, PCB, RCRA Metals
4			2.2	Sand, fine, wet, gray		
6	4-8'	1'	2.2	Sand, fine, wet, dark gray		Water sample WH-SW-GP-3 DRO, VOC
8			2.0			
10	8-12'	2"	2.0	Peat, wet, brown, wood fibers		
12				End of Boring at 12'		
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						



# BORING LOG

Boring No.: GP-4

Project: 1522 Whitaker

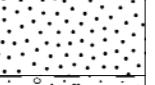
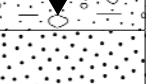
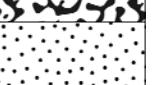
Contractor/Crew: Bergerson				Date Started: 12/26/13	Date Completed: 12/26/13
Drilling Method: Push Probe			Elevation (ft):	Total Depth (ft): 12	Depth to Water (ft): 5
Depth (ft)	Sample Interval	Recovery	PID (ppm)	Description	Profile
0			1.6	Silty sand, fine to coarse, moist, brown	
2	0-4'	3.5'	6.9		
4			3.6	Silty sand, fine to coarse, moist, dark brown	
6	4-8'	3'	1.5	Clay, very soft, wet, whitish gray	
8			1.2		
10	8-12'	1.5'		Peat, wet, brown, plant fibers	
12				End of Boring at 12'	
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					



## BORING LOG

Boring No.: GP-5

Project: 1522 Whitaker

Contractor/Crew: Bergerson				Date Started: 12/27/13	Date Completed: 12/27/13
Drilling Method: Push Probe			Elevation (ft):	Total Depth (ft): 12	Depth to Water (ft): 3.1
Depth (ft)	Sample Interval	Recovery	PID (ppm)	Description	Profile
0			5.0	Sand, fine to coarse, little fine gravel, moist, brown	
2	0-4'	4'	5.9	Silty sand, fine to medium, moist, dark brown	
4			3.9	Sand, coarse, wet, gray	
6	4-8'	2'	4.2		
8			2.9	Peat, moist, dark brown, plant fibers	
10	8-12'	2'	4.1	Sand, fine, moist, gray	
12				End of Boring at 12'	
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					



# BORING LOG

Boring No.: GP-6

Project: 1522 Whitaker

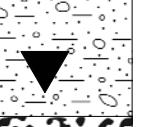
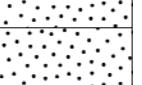
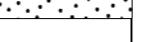
Contractor/Crew: Bergerson					Date Started: 12/27/13	Date Completed: 12/27/13	
Drilling Method: Push Probe			Elevation (ft):		Total Depth (ft): 12	Depth to Water (ft): 5	
Depth (ft)	Sample Interval	Recovery	PID (ppm)	Description	Profile	Remarks, Lab Samples, etc.	
0			5.2	Silty sand, fine to coarse, moist, brown			
2	0-4'	4'	4.1	Silty sand, fine to medium, moist, dark brown			Soil sample WH-SB-GP-6 (2-4') DRO, VOC, PAH, PCB, RCRA Metals
4			4.7	Silty sand, fine to medium, wet, dark brown			
6	4-8'	3'	2.6	Silty sand, fine to medium, wet, dark brown			MS/MSD was performed on WH-SB-GP- 6 (2-4') for all parameters
8			3.0	Peat, moist, dark brown, plant fibers			
10	8-12'	3'	2.8	Sand, fine, wet, gray			
12				End of Boring at 12'			
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							



# BORING LOG

Boring No.: GP-7

Project: 1522 Whitaker

Contractor/Crew: Bergerson				Date Started: 12/26/13	Date Completed: 12/26/13
Drilling Method: Push Probe			Elevation (ft):	Total Depth (ft): 12	Depth to Water (ft): 1.9
Depth (ft)	Sample Interval	Recovery	PID (ppm)	Description	Profile
0					
2	0-4'	4'	0.2	Silty sand, fine to medium, moist, black, roots	
4			0.1	Sandy peat, moist, black	
6	4-8'	4'	0.2	Sand, fine, wet, dark brown	
8			0.1		
10	8-12'	4'	0.1	Sand, fine, wet, gray	
12			0.1	End of Boring at 12'	
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					



# BORING LOG

Boring No.: GP-8

Project: 1522 Whitaker

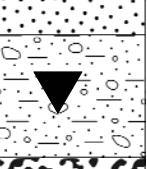
Contractor/Crew: Bergerson				Date Started: 12/26/13	Date Completed: 12/26/13
Drilling Method: Push Probe			Elevation (ft):	Total Depth (ft): 12	Depth to Water (ft): 4
Depth (ft)	Sample Interval	Recovery	PID (ppm)	Description	Profile
0			0.5	Silty sand, fine to coarse, moist, grayish brown	Gravel at surface, 0-1' frozen
2	0-4'	4'	0.4	Silty sand, fine to coarse, moist, dark brown	
4			0.2		
6	4-8'	2'	0.2	Peat, moist, brown, plant fibers	Soil sample WH-SB-GP-8 (2-4') DRO, VOC, PAH, PCB, RCRA Metals
8			0.7		
10	8-12'	2.5'	0.5	Sand, fine, wet, gray	
12				End of Boring at 12'	
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					



## BORING LOG

Boring No.: GP-9

Project: 1522 Whitaker

Contractor/Crew: Bergerson				Date Started: 12/26/13	Date Completed: 12/26/13	
Drilling Method: Push Probe			Elevation (ft):	Total Depth (ft): 12	Depth to Water (ft): 2.4	
Depth (ft)	Sample Interval	Recovery	PID (ppm)	Description	Profile	Remarks, Lab Samples, etc.
0			1.9	Sand, fine to coarse, with fine gravel, frozen, light brown		
2	0-4'	4'	2.0	Silty sand, fine to coarse, moist, black, organics		Water sample WH-SW-GP-9 DRO, VOC
4			1.4	Sandy peat, fine sand, moist, black, plant fibers		Soil sample WH-SB-GP-9 (6-8') DRO, VOC, PAH, PCB, RCRA Metals
6	4-8'	2'	1.1	Sandy gravel, fine gravel, wet, light brown		
8			1.3	Sandy gravel, fine gravel, wet, gray		
10	8-12'	2'	1.9	Sandy gravel, fine gravel, wet, black		6" peat layer at 10'
12				End of Boring at 12'		
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						



## BORING LOG

Boring No.: GP-10

Project: 1522 Whitaker

Contractor/Crew: Bergerson				Date Started: 12/26/13	Date Completed: 12/26/13
Drilling Method: Push Probe			Elevation (ft):	Total Depth (ft): 12	Depth to Water (ft): 5
Depth (ft)	Sample Interval	Recovery	PID (ppm)	Description	Profile
0			0.6	Silty sand, fine to coarse, moist, brownish black	Thin gravel surface
2	0-4'	3.5'	0.8	Concrete rubble	Soil sample WH-SB-GP-10 (2-4') DRO, VOC, PAH, PCB, RCRA Metals
4			0.5	Peat, moist, black, plant fibers	
6	4-8'	2'	0.5		
8			0.3	Sand, fine, wet, dark gray	
10	8-12'	3'	0.5	End of Boring at 12'	
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					



# BORING LOG

Boring No.: GP-11

Project: 1522 Whitaker

Contractor/Crew: Bergerson				Date Started: 12/26/13	Date Completed: 12/26/13
Drilling Method: Push Probe			Elevation (ft):	Total Depth (ft): 12	Depth to Water (ft): 4
Depth (ft)	Sample Interval	Recovery	PID (ppm)	Description	Profile
0			0.5	Sand, fine to coarse, moist, dark brown	
2	0-4'	4'	3.6	Sand, fine to medium, moist, brownish black	
4			0.8		
6	4-8'	4'	0.6	Sand, fine to medium, wet, brownish black	
8			0.7		
10	8-12'	4'	0.8	Clay, soft, moist, gray Woodchips	
12				End of Boring at 12'	
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					



# BORING LOG

Boring No.: GP-12

Project: 1522 Whitaker

Contractor/Crew: Bergerson					Date Started: 12/26/13	Date Completed: 12/26/13
Drilling Method: Push Probe			Elevation (ft):	Total Depth (ft): 12	Depth to Water (ft): 6.4	
Depth (ft)	Sample Interval	Recovery	PID (ppm)	Description	Profile	Remarks, Lab Samples, etc.
0			1.3			
2	0-4'	4'	1.6	Sand, fine to medium, moist, brownish dark gray		Soil sample WH-SB-GP-12 (2-4') and WH-SB-GP-12 (2-4')-FD DRO, VOC, PAH, PCB, RCRA Metals
4			1.2			
6	4-8'	4'	2.3			
8			2.4	Silty sand, fine to medium, moist, brownish dark gray		Water sample WH-SW-GP-12 DRO, VOC
10	8-12'	4'	2.4			
12				End of Boring at 12'		MS/MSD was performed on WH-SW-GP-12 for all parameters
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						

## **APPENDIX C**

January 16, 2014

Mr. Bruce Schaepe  
Peer Engineering, Inc.  
7615 Golden Triangle Drive  
Suite N  
Eden Prairie, MN 55344

RE: Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

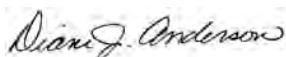
Dear Mr. Schaepe:

Enclosed are the analytical results for sample(s) received by the laboratory on December 31, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised to add Silica gel clean up to the DROs for samples 001, 004, 009 and 013 at the client's request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Diane J. Anderson

diane.anderson@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## CERTIFICATIONS

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414  
A2LA Certification #: 2926.01  
Alabama Dept of Environmental Management #40770  
Alaska Certification #: UST-078  
Alaska Certification #MN00064  
Arizona Certification #: AZ-0014  
Arkansas Certification #: 88-0680  
California Certification #: 01155CA  
Colorado Certification #Pace  
Connecticut Certification #: PH-0256  
EPA Region 8 Certification #: Pace  
EPA Region 5 #WD-15J  
Florida/NELAP Certification #: E87605  
Georgia Certification #: 959  
Hawaii Certification #Pace  
Idaho Certification #: MN00064  
Illinois Certification #: 200011  
Indiana Certification#C-MN-01  
Iowa Certification #: 368  
Kansas Certification #: E-10167  
Kentucky Dept of Envi. Protection - DW #90062  
Louisiana Certification #: 03086  
Louisiana Certification #: LA080009  
Maine Certification #: 2007029  
Maryland Certification #: 322

Michigan DEQ Certification #: 9909  
Minnesota Certification #: 027-053-137  
Mississippi Certification #: Pace  
Montana Certification #: MT CERT0092  
Nebraska Certification #: Pace  
Nevada Certification #: MN\_00064  
New Jersey Certification #: MN-002  
New York Certification #: 11647  
North Carolina Certification #: 530  
North Dakota Certification #: R-036  
Ohio VAP Certification #: CL101  
Oklahoma Certification #: 9507  
Oregon Certification #: MN200001  
Oregon Certification #: MN300001  
Pennsylvania Certification #: 68-00563  
Puerto Rico Certification  
Tennessee Certification #: 02818  
Texas Certification #: T104704192  
Utah Certification #: MN00064  
Virginia/DCLS Certification #: 002521  
Virginia/VELAP Certification #: 460163  
Washington Certification #: C754  
West Virginia Certification #: 382  
Wisconsin Certification #: 999407970

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## SAMPLE SUMMARY

Project: 22056 1522 Whitaker St. REV  
 Pace Project No.: 10253812

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10253812001	WH-SB-GP-1 (2-4')	Solid	12/26/13 13:35	12/31/13 15:47
10253812002	WH-SB-GP-2 (2-4')	Solid	12/26/13 12:05	12/31/13 15:47
10253812003	WH-SB-GP-2 (6-8')	Solid	12/26/13 12:15	12/31/13 15:47
10253812004	WH-SB-GP-3 (2-4')	Solid	12/26/13 12:50	12/31/13 15:47
10253812005	WH-SB-GP-4 (6-8')	Solid	12/26/13 16:05	12/31/13 15:47
10253812006	WH-SB-GP-5 (2-4')	Solid	12/27/13 08:50	12/31/13 15:47
10253812007	WH-SB-GP-6 (2-4') MS/MSD	Solid	12/27/13 09:45	12/31/13 15:47
10253812008	WH-SB-GP-7 (6-8')	Solid	12/26/13 09:15	12/31/13 15:47
10253812009	WH-SB-GP-8 (2-4')	Solid	12/26/13 09:05	12/31/13 15:47
10253812010	WH-SB-GP-9 (6-8')	Solid	12/26/13 10:40	12/31/13 15:47
10253812011	WH-SB-GP-10 (2-4')	Solid	12/26/13 11:30	12/31/13 15:47
10253812012	WH-SB-GP-11 (6-8')	Solid	12/26/13 14:10	12/31/13 15:47
10253812013	WH-SB-GP-12 (2-4')	Solid	12/26/13 14:40	12/31/13 15:47
10253812014	WH-SB-GP-12 (2-4')-FD	Solid	12/26/13 14:40	12/31/13 15:47
10253812015	WH-SB-TB	Solid	12/26/13 00:00	12/31/13 15:47

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
 without the written consent of Pace Analytical Services, Inc..

## SAMPLE ANALYTE COUNT

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10253812001	<b>WH-SB-GP-1 (2-4')</b>	EPA 8082	KL1	11
		WI MOD DRO	JRH	2
		WI MOD DRO	MT	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
		EPA 8260	MJH	70
		EPA 8082	KL1	11
		WI MOD DRO	JRH	2
10253812002	<b>WH-SB-GP-2 (2-4')</b>	EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
		EPA 8260	MJH	70
		EPA 8082	KL1	11
		WI MOD DRO	JRH	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
10253812003	<b>WH-SB-GP-2 (6-8')</b>	EPA 8270 by SIM	AJP	18
		EPA 8260	MJH	70
		EPA 8082	KL1	11
		WI MOD DRO	JRH	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
		EPA 8260	MJH	70
		EPA 8082	KL1	11
10253812004	<b>WH-SB-GP-3 (2-4')</b>	WI MOD DRO	JRH	2
		WI MOD DRO	MT	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
		EPA 8260	MJH	70
		EPA 8082	KL1	11
		WI MOD DRO	JRH	2
		EPA 6010	IP	7
10253812005	<b>WH-SB-GP-4 (6-8')</b>	EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
		EPA 8260	MJH	70
		EPA 8082	KL1	11
		WI MOD DRO	JRH	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## SAMPLE ANALYTE COUNT

Project: 22056 1522 Whitaker St. REV  
 Pace Project No.: 10253812

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10253812006	WH-SB-GP-5 (2-4')	EPA 8082	KL1	11
		WI MOD DRO	JRH	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
		EPA 8260	MJH	70
10253812007	WH-SB-GP-6 (2-4') MS/MSD	EPA 8082	KL1	11
		WI MOD DRO	JRH	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
		EPA 8260	MJH	70
10253812008	WH-SB-GP-7 (6-8')	EPA 8082	KL1	11
		WI MOD DRO	JRH	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
		EPA 8260	MJH	70
10253812009	WH-SB-GP-8 (2-4')	EPA 8082	KL1	11
		WI MOD DRO	JRH	2
		WI MOD DRO	MT	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
		EPA 8260	MJH	70
10253812010	WH-SB-GP-9 (6-8')	EPA 8082	KL1	11
		WI MOD DRO	JRH	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
		EPA 8260	MJH	70
10253812011	WH-SB-GP-10 (2-4')	EPA 8082	KL1	11

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
 without the written consent of Pace Analytical Services, Inc..

## SAMPLE ANALYTE COUNT

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

Lab ID	Sample ID	Method	Analysts	Analytics Reported
10253812012	WH-SB-GP-11 (6-8')	WI MOD DRO	JRH	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
		EPA 8260	MJH	70
		EPA 8082	KL1	11
		WI MOD DRO	JRH	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
10253812013	WH-SB-GP-12 (2-4')	ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
		EPA 8260	MJH	70
		EPA 8082	KL1	11
		WI MOD DRO	JRH	2
		WI MOD DRO	MT	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
10253812014	WH-SB-GP-12 (2-4')-FD	EPA 8260	LPM	70
		EPA 8082	KL1	11
		WI MOD DRO	JRH	2
		EPA 6010	IP	7
		EPA 7471	WBS	1
		ASTM D2974	CMB	1
		EPA 8270 by SIM	AJP	18
		EPA 8260	LPM	70
		EPA 8260	LPM	70
		EPA 8260	LPM	70
10253812015	WH-SB-TB			

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

**Sample: WH-SB-GP-1 (2-4')** Lab ID: **10253812001** Collected: 12/26/13 13:35 Received: 12/31/13 15:47 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 18:01	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 18:01	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 18:01	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 18:01	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 18:01	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 18:01	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 18:01	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 18:01	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 18:01	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	77 %.		50-128	1	01/07/14 10:51	01/07/14 18:01	877-09-8	
Decachlorobiphenyl (S)	71 %.		55-130	1	01/07/14 10:51	01/07/14 18:01	2051-24-3	
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	115 mg/kg		99.9	10	01/04/14 09:02	01/06/14 14:17		T6
<b>Surrogates</b>								
n-Triacontane (S)	97 %.		50-150	10	01/04/14 09:02	01/06/14 14:17	638-68-6	
<b>WIDRO GCS Silica Gel</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	75.2 mg/kg		50.0	5	01/03/14 13:49	01/15/14 11:45		T6
<b>Surrogates</b>								
n-Triacontane (S)	63 %.		63-125	5	01/03/14 13:49	01/15/14 11:45	638-68-6	
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND mg/kg		1.0	1	01/06/14 07:40	01/07/14 21:48	7440-38-2	
Barium	36.7 mg/kg		0.50	1	01/06/14 07:40	01/07/14 21:48	7440-39-3	
Cadmium	ND mg/kg		0.15	1	01/06/14 07:40	01/07/14 21:48	7440-43-9	
Chromium	14.5 mg/kg		0.50	1	01/06/14 07:40	01/07/14 21:48	7440-47-3	
Lead	53.3 mg/kg		1.0	1	01/06/14 07:40	01/07/14 21:48	7439-92-1	
Selenium	4.1 mg/kg		0.76	1	01/06/14 07:40	01/07/14 21:48	7782-49-2	
Silver	ND mg/kg		0.50	1	01/06/14 07:40	01/07/14 21:48	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg		0.020	1	01/06/14 08:07	01/07/14 12:00	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	12.2 %		0.10	1		01/06/14 00:00		
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	83-32-9	
Acenaphthylene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	208-96-8	
Anthracene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	120-12-7	
Benzo(a)anthracene	0.27 mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	56-55-3	
Benzo(a)pyrene	0.27 mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	50-32-8	
Benzo(b)fluoranthene	0.35 mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	205-99-2	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-1 (2-4') Lab ID: 10253812001 Collected: 12/26/13 13:35 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Benzo(g,h,i)perylene	<b>0.20</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	191-24-2	
Benzo(k)fluoranthene	<b>0.12</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	207-08-9	
Chrysene	<b>0.30</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	53-70-3	
Fluoranthene	<b>0.64</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	206-44-0	
Fluorene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.20</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	193-39-5	
Naphthalene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	91-20-3	
Phenanthrene	<b>0.47</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	85-01-8	
Pyrene	<b>0.50</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:19	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	105 %.		30-150	1	01/07/14 10:43	01/08/14 16:19	321-60-8	P3
Terphenyl-d14 (S)	109 %.		30-150	1	01/07/14 10:43	01/08/14 16:19	1718-51-0	
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.2	1	01/04/14 09:36	01/04/14 15:03	67-64-1	
Allyl chloride	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:03	107-05-1	
Benzene	ND mg/kg		0.023	1	01/04/14 09:36	01/04/14 15:03	71-43-2	
Bromobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	108-86-1	
Bromochloromethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	74-97-5	
Bromodichloromethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	75-27-4	
Bromoform	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:03	75-25-2	
Bromomethane	ND mg/kg		0.58	1	01/04/14 09:36	01/04/14 15:03	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.29	1	01/04/14 09:36	01/04/14 15:03	78-93-3	
n-Butylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	104-51-8	
sec-Butylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	135-98-8	
tert-Butylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	98-06-6	
Carbon tetrachloride	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	56-23-5	
Chlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	108-90-7	
Chloroethane	ND mg/kg		0.58	1	01/04/14 09:36	01/04/14 15:03	75-00-3	
Chloroform	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	67-66-3	
Chloromethane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:03	74-87-3	
2-Chlorotoluene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	95-49-8	
4-Chlorotoluene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.58	1	01/04/14 09:36	01/04/14 15:03	96-12-8	
Dibromochloromethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	106-93-4	
Dibromomethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	156-59-2	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

**Sample: WH-SB-GP-1 (2-4')**      **Lab ID: 10253812001**      Collected: 12/26/13 13:35      Received: 12/31/13 15:47      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
trans-1,2-Dichloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.58	1	01/04/14 09:36	01/04/14 15:03	75-43-4	L3
1,2-Dichloropropane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:03	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:03	60-29-7	
Ethylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.29	1	01/04/14 09:36	01/04/14 15:03	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	99-87-6	
Methylene Chloride	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.29	1	01/04/14 09:36	01/04/14 15:03	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	1634-04-4	
Naphthalene	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:03	91-20-3	
n-Propylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	103-65-1	
Styrene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	79-34-5	
Tetrachloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	127-18-4	
Tetrahydrofuran	ND mg/kg		2.3	1	01/04/14 09:36	01/04/14 15:03	109-99-9	
Toluene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	79-00-5	
Trichloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:03	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:03	108-67-8	
Vinyl chloride	ND mg/kg		0.023	1	01/04/14 09:36	01/04/14 15:03	75-01-4	
Xylene (Total)	ND mg/kg		0.17	1	01/04/14 09:36	01/04/14 15:03	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101 %.		74-125	1	01/04/14 09:36	01/04/14 15:03	17060-07-0	
Toluene-d8 (S)	101 %.		75-125	1	01/04/14 09:36	01/04/14 15:03	2037-26-5	
4-Bromofluorobenzene (S)	103 %.		75-125	1	01/04/14 09:36	01/04/14 15:03	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

---

**Sample: WH-SB-GP-2 (2-4')**      Lab ID: **10253812002**      Collected: 12/26/13 12:05      Received: 12/31/13 15:47      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 18:16	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 18:16	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 18:16	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 18:16	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 18:16	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 18:16	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 18:16	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 18:16	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 18:16	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	78 %.		50-128	1	01/07/14 10:51	01/07/14 18:16	877-09-8	
Decachlorobiphenyl (S)	73 %.		55-130	1	01/07/14 10:51	01/07/14 18:16	2051-24-3	
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	<b>47.0</b> mg/kg		45.8	5	01/04/14 09:02	01/06/14 14:24		T6
<b>Surrogates</b>								
n-Triacontane (S)	87 %.		50-150	5	01/04/14 09:02	01/06/14 14:24	638-68-6	
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND mg/kg		1.1	1	01/06/14 07:40	01/07/14 21:54	7440-38-2	
Barium	<b>43.3</b> mg/kg		0.54	1	01/06/14 07:40	01/07/14 21:54	7440-39-3	
Cadmium	ND mg/kg		0.16	1	01/06/14 07:40	01/07/14 21:54	7440-43-9	
Chromium	<b>14.5</b> mg/kg		0.54	1	01/06/14 07:40	01/07/14 21:54	7440-47-3	
Lead	<b>31.6</b> mg/kg		1.1	1	01/06/14 07:40	01/07/14 21:54	7439-92-1	
Selenium	<b>3.0</b> mg/kg		0.82	1	01/06/14 07:40	01/07/14 21:54	7782-49-2	
Silver	ND mg/kg		0.54	1	01/06/14 07:40	01/07/14 21:54	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg		0.022	1	01/06/14 08:07	01/07/14 12:02	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	<b>8.1</b> %		0.10	1		01/06/14 00:00		
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	83-32-9	
Acenaphthylene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	208-96-8	
Anthracene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	56-55-3	
Benzo(a)pyrene	<b>0.12</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	50-32-8	
Benzo(b)fluoranthene	<b>0.14</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	205-99-2	
Benzo(g,h,i)perylene	<b>0.12</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	207-08-9	
Chrysene	<b>0.20</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	53-70-3	
Fluoranthene	<b>0.21</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	206-44-0	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-2 (2-4') Lab ID: 10253812002 Collected: 12/26/13 12:05 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Fluorene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	193-39-5	
Naphthalene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	91-20-3	
Phenanthrene	0.12 mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	85-01-8	
Pyrene	0.26 mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:38	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	101 %.		30-150	1	01/07/14 10:43	01/08/14 16:38	321-60-8	P3
Terphenyl-d14 (S)	103 %.		30-150	1	01/07/14 10:43	01/08/14 16:38	1718-51-0	
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.1	1	01/04/14 09:36	01/04/14 15:22	67-64-1	
Allyl chloride	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 15:22	107-05-1	
Benzene	ND mg/kg		0.021	1	01/04/14 09:36	01/04/14 15:22	71-43-2	
Bromobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	108-86-1	
Bromochloromethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	74-97-5	
Bromodichloromethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	75-27-4	
Bromoform	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 15:22	75-25-2	
Bromomethane	ND mg/kg		0.53	1	01/04/14 09:36	01/04/14 15:22	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 15:22	78-93-3	
n-Butylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	104-51-8	
sec-Butylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	135-98-8	
tert-Butylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	98-06-6	
Carbon tetrachloride	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	56-23-5	
Chlorobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	108-90-7	
Chloroethane	ND mg/kg		0.53	1	01/04/14 09:36	01/04/14 15:22	75-00-3	
Chloroform	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	67-66-3	
Chloromethane	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 15:22	74-87-3	
2-Chlorotoluene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	95-49-8	
4-Chlorotoluene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.53	1	01/04/14 09:36	01/04/14 15:22	96-12-8	
Dibromochloromethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	106-93-4	
Dibromomethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.53	1	01/04/14 09:36	01/04/14 15:22	75-43-4	L3
1,2-Dichloropropane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 15:22	594-20-7	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

**Sample: WH-SB-GP-2 (2-4')**      **Lab ID: 10253812002**      Collected: 12/26/13 12:05      Received: 12/31/13 15:47      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
1,1-Dichloropropene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 15:22	60-29-7	
Ethylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 15:22	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	99-87-6	
Methylene Chloride	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 15:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 15:22	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	1634-04-4	
Naphthalene	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 15:22	91-20-3	
n-Propylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	103-65-1	
Styrene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	79-34-5	
Tetrachloroethene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	127-18-4	
Tetrahydrofuran	ND mg/kg		2.1	1	01/04/14 09:36	01/04/14 15:22	109-99-9	
Toluene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	79-00-5	
Trichloroethene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 15:22	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 15:22	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 15:22	108-67-8	
Vinyl chloride	ND mg/kg		0.021	1	01/04/14 09:36	01/04/14 15:22	75-01-4	
Xylene (Total)	ND mg/kg		0.16	1	01/04/14 09:36	01/04/14 15:22	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100 %.		74-125	1	01/04/14 09:36	01/04/14 15:22	17060-07-0	
Toluene-d8 (S)	103 %.		75-125	1	01/04/14 09:36	01/04/14 15:22	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125	1	01/04/14 09:36	01/04/14 15:22	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

**Sample: WH-SB-GP-2 (6-8')** Lab ID: **10253812003** Collected: 12/26/13 12:15 Received: 12/31/13 15:47 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 18:32	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 18:32	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 18:32	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 18:32	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 18:32	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 18:32	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 18:32	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 18:32	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 18:32	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	60 %.		50-128	1	01/07/14 10:51	01/07/14 18:32	877-09-8	
Decachlorobiphenyl (S)	67 %.		55-130	1	01/07/14 10:51	01/07/14 18:32	2051-24-3	
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	<b>605</b> mg/kg		94.8	10	01/04/14 09:02	01/06/14 18:06		T6
<b>Surrogates</b>								
n-Triacontane (S)	84 %.		50-150	10	01/04/14 09:02	01/06/14 18:06	638-68-6	
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND mg/kg		1.1	1	01/06/14 07:40	01/07/14 22:01	7440-38-2	
Barium	<b>55.2</b> mg/kg		0.55	1	01/06/14 07:40	01/07/14 22:01	7440-39-3	
Cadmium	<b>0.28</b> mg/kg		0.17	1	01/06/14 07:40	01/07/14 22:01	7440-43-9	
Chromium	<b>7.6</b> mg/kg		0.55	1	01/06/14 07:40	01/07/14 22:01	7440-47-3	
Lead	<b>83.1</b> mg/kg		1.1	1	01/06/14 07:40	01/07/14 22:01	7439-92-1	
Selenium	<b>2.7</b> mg/kg		0.83	1	01/06/14 07:40	01/07/14 22:01	7782-49-2	
Silver	ND mg/kg		0.55	1	01/06/14 07:40	01/07/14 22:01	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	<b>0.11</b> mg/kg		0.024	1	01/06/14 08:07	01/07/14 12:04	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	<b>15.2</b> %		0.10	1		01/06/14 00:00		
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	83-32-9	
Acenaphthylene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	208-96-8	
Anthracene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	207-08-9	
Chrysene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	53-70-3	
Fluoranthene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	206-44-0	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-2 (6-8') Lab ID: 10253812003 Collected: 12/26/13 12:15 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Fluorene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	193-39-5	
Naphthalene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	91-20-3	
Phenanthrene	<b>0.88</b> mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	85-01-8	
Pyrene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 00:15	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	0 %.		30-150	5	01/07/14 10:43	01/08/14 00:15	321-60-8	P3,S4
Terphenyl-d14 (S)	83 %.		30-150	5	01/07/14 10:43	01/08/14 00:15	1718-51-0	
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.2	1	01/04/14 09:36	01/04/14 15:42	67-64-1	
Allyl chloride	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:42	107-05-1	
Benzene	ND mg/kg		0.023	1	01/04/14 09:36	01/04/14 15:42	71-43-2	
Bromobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	108-86-1	
Bromochloromethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	74-97-5	
Bromodichloromethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	75-27-4	
Bromoform	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:42	75-25-2	
Bromomethane	ND mg/kg		0.58	1	01/04/14 09:36	01/04/14 15:42	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.29	1	01/04/14 09:36	01/04/14 15:42	78-93-3	
n-Butylbenzene	<b>0.22</b> mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	104-51-8	
sec-Butylbenzene	<b>0.26</b> mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	135-98-8	
tert-Butylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	98-06-6	
Carbon tetrachloride	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	56-23-5	
Chlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	108-90-7	
Chloroethane	ND mg/kg		0.58	1	01/04/14 09:36	01/04/14 15:42	75-00-3	
Chloroform	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	67-66-3	
Chloromethane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:42	74-87-3	
2-Chlorotoluene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	95-49-8	
4-Chlorotoluene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.58	1	01/04/14 09:36	01/04/14 15:42	96-12-8	
Dibromochloromethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	106-93-4	
Dibromomethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.58	1	01/04/14 09:36	01/04/14 15:42	75-43-4	L3
1,2-Dichloropropane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:42	594-20-7	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-2 (6-8') Lab ID: 10253812003 Collected: 12/26/13 12:15 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
1,1-Dichloropropene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:42	60-29-7	
Ethylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.29	1	01/04/14 09:36	01/04/14 15:42	87-68-3	
Isopropylbenzene (Cumene)	<b>0.082</b> mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	98-82-8	
p-Isopropyltoluene	<b>0.19</b> mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	99-87-6	
Methylene Chloride	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.29	1	01/04/14 09:36	01/04/14 15:42	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	1634-04-4	
Naphthalene	<b>0.29</b> mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:42	91-20-3	
n-Propylbenzene	<b>0.15</b> mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	103-65-1	
Styrene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	79-34-5	
Tetrachloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	127-18-4	
Tetrahydrofuran	ND mg/kg		2.3	1	01/04/14 09:36	01/04/14 15:42	109-99-9	
Toluene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	79-00-5	
Trichloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:42	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 15:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 15:42	108-67-8	
Vinyl chloride	ND mg/kg		0.023	1	01/04/14 09:36	01/04/14 15:42	75-01-4	
Xylene (Total)	ND mg/kg		0.17	1	01/04/14 09:36	01/04/14 15:42	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100 %.		74-125	1	01/04/14 09:36	01/04/14 15:42	17060-07-0	
Toluene-d8 (S)	101 %.		75-125	1	01/04/14 09:36	01/04/14 15:42	2037-26-5	
4-Bromofluorobenzene (S)	104 %.		75-125	1	01/04/14 09:36	01/04/14 15:42	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

**Sample: WH-SB-GP-3 (2-4')** Lab ID: **10253812004** Collected: 12/26/13 12:50 Received: 12/31/13 15:47 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:12	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:12	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:12	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:12	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:12	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:12	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:12	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:12	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:12	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	0 %.		50-128	10	01/07/14 10:51	01/07/14 21:12	877-09-8	D3,S4
Decachlorobiphenyl (S)	0 %.		55-130	10	01/07/14 10:51	01/07/14 21:12	2051-24-3	S4
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	331 mg/kg		215	5	01/04/14 09:02	01/06/14 14:31		T6
<b>Surrogates</b>								
n-Triacontane (S)	127 %.		50-150	5	01/04/14 09:02	01/06/14 14:31	638-68-6	
<b>WIDRO GCS Silica Gel</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	283 mg/kg		215	5	01/03/14 13:49	01/15/14 10:57		T6
<b>Surrogates</b>								
n-Triacontane (S)	0 %.		63-125	5	01/03/14 13:49	01/15/14 10:57	638-68-6	S0
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	1.9 mg/kg		1.1	1	01/06/14 07:40	01/07/14 22:08	7440-38-2	
Barium	26.0 mg/kg		0.53	1	01/06/14 07:40	01/07/14 22:08	7440-39-3	
Cadmium	ND mg/kg		0.16	1	01/06/14 07:40	01/07/14 22:08	7440-43-9	
Chromium	12.3 mg/kg		0.53	1	01/06/14 07:40	01/07/14 22:08	7440-47-3	
Lead	37.5 mg/kg		1.1	1	01/06/14 07:40	01/07/14 22:08	7439-92-1	
Selenium	3.1 mg/kg		0.79	1	01/06/14 07:40	01/07/14 22:08	7782-49-2	
Silver	ND mg/kg		0.53	1	01/06/14 07:40	01/07/14 22:08	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg		0.019	1	01/06/14 08:07	01/07/14 12:06	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	6.1 %		0.10	1		01/06/14 00:00		
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	0.26 mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	83-32-9	
Acenaphthylene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	208-96-8	
Anthracene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	205-99-2	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-3 (2-4') Lab ID: 10253812004 Collected: 12/26/13 12:50 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Benzo(g,h,i)perylene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	207-08-9	
Chrysene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	53-70-3	
Fluoranthene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	206-44-0	
Fluorene	<b>0.41</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	193-39-5	
Naphthalene	<b>1.2</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	91-20-3	
Phenanthrene	<b>0.59</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	85-01-8	
Pyrene	<b>0.21</b> mg/kg		0.11	1	01/07/14 10:43	01/08/14 16:57	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	0 %.		30-150	1	01/07/14 10:43	01/08/14 16:57	321-60-8	P3,S4
Terphenyl-d14 (S)	0 %.		30-150	1	01/07/14 10:43	01/08/14 16:57	1718-51-0	S4
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.1	1	01/04/14 09:36	01/04/14 16:01	67-64-1	
Allyl chloride	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 16:01	107-05-1	
Benzene	ND mg/kg		0.021	1	01/04/14 09:36	01/04/14 16:01	71-43-2	
Bromobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	108-86-1	
Bromochloromethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	74-97-5	
Bromodichloromethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	75-27-4	
Bromoform	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 16:01	75-25-2	
Bromomethane	ND mg/kg		0.53	1	01/04/14 09:36	01/04/14 16:01	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 16:01	78-93-3	
n-Butylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	104-51-8	
sec-Butylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	135-98-8	
tert-Butylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	98-06-6	
Carbon tetrachloride	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	56-23-5	
Chlorobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	108-90-7	
Chloroethane	ND mg/kg		0.53	1	01/04/14 09:36	01/04/14 16:01	75-00-3	
Chloroform	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	67-66-3	
Chloromethane	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 16:01	74-87-3	
2-Chlorotoluene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	95-49-8	
4-Chlorotoluene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.53	1	01/04/14 09:36	01/04/14 16:01	96-12-8	
Dibromochloromethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	106-93-4	
Dibromomethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	156-59-2	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

**Sample: WH-SB-GP-3 (2-4')**      **Lab ID: 10253812004**      Collected: 12/26/13 12:50      Received: 12/31/13 15:47      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
trans-1,2-Dichloroethene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.53	1	01/04/14 09:36	01/04/14 16:01	75-43-4	L3
1,2-Dichloropropane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 16:01	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 16:01	60-29-7	
Ethylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 16:01	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	99-87-6	
Methylene Chloride	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 16:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 16:01	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	1634-04-4	
Naphthalene	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 16:01	91-20-3	
n-Propylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	103-65-1	
Styrene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	79-34-5	
Tetrachloroethene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	127-18-4	
Tetrahydrofuran	ND mg/kg		2.1	1	01/04/14 09:36	01/04/14 16:01	109-99-9	
Toluene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	79-00-5	
Trichloroethene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 16:01	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 16:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.053	1	01/04/14 09:36	01/04/14 16:01	108-67-8	
Vinyl chloride	ND mg/kg		0.021	1	01/04/14 09:36	01/04/14 16:01	75-01-4	
Xylene (Total)	ND mg/kg		0.16	1	01/04/14 09:36	01/04/14 16:01	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100 %.		74-125	1	01/04/14 09:36	01/04/14 16:01	17060-07-0	
Toluene-d8 (S)	101 %.		75-125	1	01/04/14 09:36	01/04/14 16:01	2037-26-5	
4-Bromofluorobenzene (S)	103 %.		75-125	1	01/04/14 09:36	01/04/14 16:01	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

**Sample: WH-SB-GP-4 (6-8')** Lab ID: **10253812005** Collected: 12/26/13 16:05 Received: 12/31/13 15:47 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.043	1	01/07/14 10:51	01/07/14 18:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.043	1	01/07/14 10:51	01/07/14 18:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.043	1	01/07/14 10:51	01/07/14 18:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.043	1	01/07/14 10:51	01/07/14 18:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.043	1	01/07/14 10:51	01/07/14 18:48	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.043	1	01/07/14 10:51	01/07/14 18:48	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.043	1	01/07/14 10:51	01/07/14 18:48	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.043	1	01/07/14 10:51	01/07/14 18:48	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.043	1	01/07/14 10:51	01/07/14 18:48	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	74 %.		50-128	1	01/07/14 10:51	01/07/14 18:48	877-09-8	
Decachlorobiphenyl (S)	71 %.		55-130	1	01/07/14 10:51	01/07/14 18:48	2051-24-3	
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	43.1 mg/kg		10.3	1	01/04/14 09:02	01/06/14 15:41		T6
<b>Surrogates</b>								
n-Triacontane (S)	87 %.		50-150	1	01/04/14 09:02	01/06/14 15:41	638-68-6	
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND mg/kg		5.3	5	01/06/14 07:40	01/08/14 09:04	7440-38-2	
Barium	50.9 mg/kg		2.6	5	01/06/14 07:40	01/08/14 09:04	7440-39-3	
Cadmium	ND mg/kg		0.79	5	01/06/14 07:40	01/08/14 09:04	7440-43-9	
Chromium	5.7 mg/kg		2.6	5	01/06/14 07:40	01/08/14 09:04	7440-47-3	
Lead	210 mg/kg		5.3	5	01/06/14 07:40	01/08/14 09:04	7439-92-1	
Selenium	6.7 mg/kg		4.0	5	01/06/14 07:40	01/08/14 09:04	7782-49-2	
Silver	ND mg/kg		2.6	5	01/06/14 07:40	01/08/14 09:04	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg		0.025	1	01/06/14 08:07	01/07/14 12:08	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	23.5 %		0.10	1		01/06/14 00:00		
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	83-32-9	
Acenaphthylene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	208-96-8	
Anthracene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	207-08-9	
Chrysene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	53-70-3	
Fluoranthene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	206-44-0	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-4 (6-8') Lab ID: 10253812005 Collected: 12/26/13 16:05 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Fluorene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	193-39-5	
Naphthalene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	91-20-3	
Phenanthrene	<b>0.080</b> mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	85-01-8	
Pyrene	ND mg/kg		0.065	5	01/07/14 10:43	01/08/14 00:53	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	66 %.		30-150	5	01/07/14 10:43	01/08/14 00:53	321-60-8	
Terphenyl-d14 (S)	74 %.		30-150	5	01/07/14 10:43	01/08/14 00:53	1718-51-0	
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.3	1	01/04/14 09:36	01/04/14 16:21	67-64-1	
Allyl chloride	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 16:21	107-05-1	
Benzene	ND mg/kg		0.027	1	01/04/14 09:36	01/04/14 16:21	71-43-2	
Bromobenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	108-86-1	
Bromochloromethane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	74-97-5	
Bromodichloromethane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	75-27-4	
Bromoform	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 16:21	75-25-2	
Bromomethane	ND mg/kg		0.67	1	01/04/14 09:36	01/04/14 16:21	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.34	1	01/04/14 09:36	01/04/14 16:21	78-93-3	
n-Butylbenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	104-51-8	
sec-Butylbenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	135-98-8	
tert-Butylbenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	98-06-6	
Carbon tetrachloride	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	56-23-5	
Chlorobenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	108-90-7	
Chloroethane	ND mg/kg		0.67	1	01/04/14 09:36	01/04/14 16:21	75-00-3	
Chloroform	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	67-66-3	
Chloromethane	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 16:21	74-87-3	
2-Chlorotoluene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	95-49-8	
4-Chlorotoluene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.67	1	01/04/14 09:36	01/04/14 16:21	96-12-8	
Dibromochloromethane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	106-93-4	
Dibromomethane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.67	1	01/04/14 09:36	01/04/14 16:21	75-43-4	L3
1,2-Dichloropropane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 16:21	594-20-7	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

**Sample: WH-SB-GP-4 (6-8')**      **Lab ID: 10253812005**      Collected: 12/26/13 16:05      Received: 12/31/13 15:47      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
1,1-Dichloropropene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 16:21	60-29-7	
Ethylbenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.34	1	01/04/14 09:36	01/04/14 16:21	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	99-87-6	
Methylene Chloride	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 16:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.34	1	01/04/14 09:36	01/04/14 16:21	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	1634-04-4	
Naphthalene	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 16:21	91-20-3	
n-Propylbenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	103-65-1	
Styrene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	79-34-5	
Tetrachloroethene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	127-18-4	
Tetrahydrofuran	ND mg/kg		2.7	1	01/04/14 09:36	01/04/14 16:21	109-99-9	
Toluene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	79-00-5	
Trichloroethene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 16:21	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 16:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.067	1	01/04/14 09:36	01/04/14 16:21	108-67-8	
Vinyl chloride	ND mg/kg		0.027	1	01/04/14 09:36	01/04/14 16:21	75-01-4	
Xylene (Total)	ND mg/kg		0.20	1	01/04/14 09:36	01/04/14 16:21	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101 %.		74-125	1	01/04/14 09:36	01/04/14 16:21	17060-07-0	
Toluene-d8 (S)	100 %.		75-125	1	01/04/14 09:36	01/04/14 16:21	2037-26-5	
4-Bromofluorobenzene (S)	100 %.		75-125	1	01/04/14 09:36	01/04/14 16:21	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

**Sample: WH-SB-GP-5 (2-4')** Lab ID: **10253812006** Collected: 12/27/13 08:50 Received: 12/31/13 15:47 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:04	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:04	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:04	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:04	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:04	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:04	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:04	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:04	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:04	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	83 %.		50-128	1	01/07/14 10:51	01/07/14 19:04	877-09-8	
Decachlorobiphenyl (S)	78 %.		55-130	1	01/07/14 10:51	01/07/14 19:04	2051-24-3	
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	25.1 mg/kg		9.3	1	01/04/14 09:02	01/06/14 15:48		T6
<b>Surrogates</b>								
n-Triacontane (S)	98 %.		50-150	1	01/04/14 09:02	01/06/14 15:48	638-68-6	
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	1.5 mg/kg		0.98	1	01/06/14 07:40	01/07/14 22:29	7440-38-2	
Barium	36.6 mg/kg		0.49	1	01/06/14 07:40	01/07/14 22:29	7440-39-3	
Cadmium	ND mg/kg		0.15	1	01/06/14 07:40	01/07/14 22:29	7440-43-9	
Chromium	10.9 mg/kg		0.49	1	01/06/14 07:40	01/07/14 22:29	7440-47-3	
Lead	32.8 mg/kg		0.98	1	01/06/14 07:40	01/07/14 22:29	7439-92-1	
Selenium	2.7 mg/kg		0.73	1	01/06/14 07:40	01/07/14 22:29	7782-49-2	
Silver	ND mg/kg		0.49	1	01/06/14 07:40	01/07/14 22:29	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.11 mg/kg		0.022	1	01/06/14 08:07	01/07/14 12:10	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	13.1 %		0.10	1		01/06/14 00:00		
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	0.40 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	83-32-9	
Acenaphthylene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	208-96-8	
Anthracene	1.6 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	120-12-7	
Benzo(a)anthracene	1.9 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	56-55-3	
Benzo(a)pyrene	1.7 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	50-32-8	
Benzo(b)fluoranthene	2.0 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	205-99-2	
Benzo(g,h,i)perylene	0.96 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	191-24-2	
Benzo(k)fluoranthene	0.71 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	207-08-9	
Chrysene	1.9 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	218-01-9	
Dibenz(a,h)anthracene	0.30 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	53-70-3	
Fluoranthene	5.0 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	206-44-0	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-5 (2-4') Lab ID: 10253812006 Collected: 12/27/13 08:50 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Fluorene	0.61 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	86-73-7	
Indeno(1,2,3-cd)pyrene	1.2 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	193-39-5	
Naphthalene	ND mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	91-20-3	
Phenanthrene	4.6 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	85-01-8	
Pyrene	3.7 mg/kg		0.29	5	01/07/14 10:43	01/08/14 01:12	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	0 %.		30-150	5	01/07/14 10:43	01/08/14 01:12	321-60-8	P3,S4
Terphenyl-d14 (S)	0 %.		30-150	5	01/07/14 10:43	01/08/14 01:12	1718-51-0	S4
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.2	1	01/04/14 09:36	01/04/14 16:40	67-64-1	
Allyl chloride	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 16:40	107-05-1	
Benzene	ND mg/kg		0.024	1	01/04/14 09:36	01/04/14 16:40	71-43-2	
Bromobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	108-86-1	
Bromochloromethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	74-97-5	
Bromodichloromethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	75-27-4	
Bromoform	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 16:40	75-25-2	
Bromomethane	ND mg/kg		0.59	1	01/04/14 09:36	01/04/14 16:40	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.30	1	01/04/14 09:36	01/04/14 16:40	78-93-3	
n-Butylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	104-51-8	
sec-Butylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	135-98-8	
tert-Butylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	98-06-6	
Carbon tetrachloride	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	56-23-5	
Chlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	108-90-7	
Chloroethane	ND mg/kg		0.59	1	01/04/14 09:36	01/04/14 16:40	75-00-3	
Chloroform	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	67-66-3	
Chloromethane	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 16:40	74-87-3	
2-Chlorotoluene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	95-49-8	
4-Chlorotoluene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.59	1	01/04/14 09:36	01/04/14 16:40	96-12-8	
Dibromochloromethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	106-93-4	
Dibromomethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.59	1	01/04/14 09:36	01/04/14 16:40	75-43-4	L3
1,2-Dichloropropane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 16:40	594-20-7	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

**Sample: WH-SB-GP-5 (2-4')**      **Lab ID: 10253812006**      Collected: 12/27/13 08:50      Received: 12/31/13 15:47      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
1,1-Dichloropropene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 16:40	60-29-7	
Ethylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.30	1	01/04/14 09:36	01/04/14 16:40	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	99-87-6	
Methylene Chloride	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 16:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.30	1	01/04/14 09:36	01/04/14 16:40	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	1634-04-4	
Naphthalene	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 16:40	91-20-3	
n-Propylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	103-65-1	
Styrene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	79-34-5	
Tetrachloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	127-18-4	
Tetrahydrofuran	ND mg/kg		2.4	1	01/04/14 09:36	01/04/14 16:40	109-99-9	
Toluene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	79-00-5	
Trichloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 16:40	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 16:40	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 16:40	108-67-8	
Vinyl chloride	ND mg/kg		0.024	1	01/04/14 09:36	01/04/14 16:40	75-01-4	
Xylene (Total)	ND mg/kg		0.18	1	01/04/14 09:36	01/04/14 16:40	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100 %.		74-125	1	01/04/14 09:36	01/04/14 16:40	17060-07-0	
Toluene-d8 (S)	101 %.		75-125	1	01/04/14 09:36	01/04/14 16:40	2037-26-5	
4-Bromofluorobenzene (S)	100 %.		75-125	1	01/04/14 09:36	01/04/14 16:40	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-6 (2-4') MS/MSD Lab ID: 10253812007 Collected: 12/27/13 09:45 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:28	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:28	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:28	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:28	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:28	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:28	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:28	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:28	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.35	10	01/07/14 10:51	01/07/14 21:28	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	0 %.		50-128	10	01/07/14 10:51	01/07/14 21:28	877-09-8	D3,S4
Decachlorobiphenyl (S)	0 %.		55-130	10	01/07/14 10:51	01/07/14 21:28	2051-24-3	S4
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	<b>102</b> mg/kg		90.4	2	01/04/14 09:02	01/06/14 17:17		M1,R1, T6
<b>Surrogates</b>								
n-Triacontane (S)	118 %.		50-150	2	01/04/14 09:02	01/06/14 17:17	638-68-6	
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND mg/kg		1.0	1	01/06/14 07:40	01/07/14 22:36	7440-38-2	
Barium	<b>36.0</b> mg/kg		0.51	1	01/06/14 07:40	01/07/14 22:36	7440-39-3	
Cadmium	ND mg/kg		0.15	1	01/06/14 07:40	01/07/14 22:36	7440-43-9	
Chromium	<b>11.6</b> mg/kg		0.51	1	01/06/14 07:40	01/07/14 22:36	7440-47-3	
Lead	<b>57.7</b> mg/kg		1.0	1	01/06/14 07:40	01/07/14 22:36	7439-92-1	M1
Selenium	ND mg/kg		0.77	1	01/06/14 07:40	01/07/14 22:36	7782-49-2	
Silver	ND mg/kg		0.51	1	01/06/14 07:40	01/07/14 22:36	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	<b>0.020</b> mg/kg		0.020	1	01/06/14 08:07	01/07/14 12:12	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	<b>6.9</b> %		0.10	1		01/06/14 00:00		
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	ND mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	83-32-9	M1
Acenaphthylene	ND mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	208-96-8	M1
Anthracene	<b>0.98</b> mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	120-12-7	M1
Benzo(a)anthracene	<b>1.9</b> mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	56-55-3	M1
Benzo(a)pyrene	<b>2.0</b> mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	50-32-8	M1
Benzo(b)fluoranthene	<b>2.1</b> mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	205-99-2	M1
Benzo(g,h,i)perylene	<b>1.3</b> mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	191-24-2	M1
Benzo(k)fluoranthene	<b>1.2</b> mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	207-08-9	M1
Chrysene	<b>2.0</b> mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	218-01-9	M1
Dibenz(a,h)anthracene	ND mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	53-70-3	M1
Fluoranthene	<b>4.9</b> mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	206-44-0	M1

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-6 (2-4') MS/MSD Lab ID: 10253812007 Collected: 12/27/13 09:45 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Fluorene	ND mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	86-73-7	M1
Indeno(1,2,3-cd)pyrene	1.5 mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	193-39-5	M1
Naphthalene	ND mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	91-20-3	M1
Phenanthrene	3.6 mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	85-01-8	M1
Pyrene	3.8 mg/kg		0.54	5	01/07/14 10:43	01/08/14 01:30	129-00-0	M1
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	71 %.		30-150	5	01/07/14 10:43	01/08/14 01:30	321-60-8	P3
Terphenyl-d14 (S)	0 %.		30-150	5	01/07/14 10:43	01/08/14 01:30	1718-51-0	S4
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.1	1	01/04/14 09:36	01/04/14 12:45	67-64-1	
Allyl chloride	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 12:45	107-05-1	
Benzene	ND mg/kg		0.021	1	01/04/14 09:36	01/04/14 12:45	71-43-2	
Bromobenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	108-86-1	
Bromochloromethane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	74-97-5	
Bromodichloromethane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	75-27-4	
Bromoform	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 12:45	75-25-2	
Bromomethane	ND mg/kg		0.54	1	01/04/14 09:36	01/04/14 12:45	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 12:45	78-93-3	
n-Butylbenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	104-51-8	
sec-Butylbenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	135-98-8	
tert-Butylbenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	98-06-6	
Carbon tetrachloride	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	56-23-5	
Chlorobenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	108-90-7	
Chloroethane	ND mg/kg		0.54	1	01/04/14 09:36	01/04/14 12:45	75-00-3	
Chloroform	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	67-66-3	
Chloromethane	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 12:45	74-87-3	
2-Chlorotoluene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	95-49-8	
4-Chlorotoluene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.54	1	01/04/14 09:36	01/04/14 12:45	96-12-8	
Dibromochloromethane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	106-93-4	
Dibromomethane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.54	1	01/04/14 09:36	01/04/14 12:45	75-43-4	L3,M0
1,2-Dichloropropane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 12:45	594-20-7	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-6 (2-4') MS/MSD Lab ID: 10253812007 Collected: 12/27/13 09:45 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
1,1-Dichloropropene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 12:45	60-29-7	
Ethylbenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 12:45	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	99-87-6	
Methylene Chloride	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 12:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.27	1	01/04/14 09:36	01/04/14 12:45	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	1634-04-4	
Naphthalene	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 12:45	91-20-3	
n-Propylbenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	103-65-1	
Styrene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	79-34-5	
Tetrachloroethene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	127-18-4	
Tetrahydrofuran	ND mg/kg		2.1	1	01/04/14 09:36	01/04/14 12:45	109-99-9	
Toluene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	79-00-5	
Trichloroethene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 12:45	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.21	1	01/04/14 09:36	01/04/14 12:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.054	1	01/04/14 09:36	01/04/14 12:45	108-67-8	
Vinyl chloride	ND mg/kg		0.021	1	01/04/14 09:36	01/04/14 12:45	75-01-4	
Xylene (Total)	ND mg/kg		0.16	1	01/04/14 09:36	01/04/14 12:45	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97 %.		74-125	1	01/04/14 09:36	01/04/14 12:45	17060-07-0	
Toluene-d8 (S)	101 %.		75-125	1	01/04/14 09:36	01/04/14 12:45	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125	1	01/04/14 09:36	01/04/14 12:45	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

**Sample: WH-SB-GP-7 (6-8')**      Lab ID: **10253812008**      Collected: 12/26/13 09:15      Received: 12/31/13 15:47      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 19:20	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 19:20	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 19:20	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 19:20	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 19:20	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 19:20	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 19:20	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 19:20	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.039	1	01/07/14 10:51	01/07/14 19:20	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	76 %.		50-128	1	01/07/14 10:51	01/07/14 19:20	877-09-8	
Decachlorobiphenyl (S)	73 %.		55-130	1	01/07/14 10:51	01/07/14 19:20	2051-24-3	
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	ND mg/kg		9.4	1	01/04/14 09:02	01/06/14 16:23		
<b>Surrogates</b>								
n-Triacontane (S)	84 %.		50-150	1	01/04/14 09:02	01/06/14 16:23	638-68-6	
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	1.9 mg/kg		1.1	1	01/06/14 07:40	01/07/14 23:15	7440-38-2	
Barium	26.6 mg/kg		0.55	1	01/06/14 07:40	01/07/14 23:15	7440-39-3	
Cadmium	ND mg/kg		0.17	1	01/06/14 07:40	01/07/14 23:15	7440-43-9	
Chromium	6.6 mg/kg		0.55	1	01/06/14 07:40	01/07/14 23:15	7440-47-3	
Lead	1.5 mg/kg		1.1	1	01/06/14 07:40	01/07/14 23:15	7439-92-1	
Selenium	ND mg/kg		0.83	1	01/06/14 07:40	01/07/14 23:15	7782-49-2	
Silver	ND mg/kg		0.55	1	01/06/14 07:40	01/07/14 23:15	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg		0.023	1	01/06/14 08:07	01/07/14 12:25	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	16.0 %		0.10	1		01/06/14 00:00		
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	83-32-9	
Acenaphthylene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	208-96-8	
Anthracene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	207-08-9	
Chrysene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	53-70-3	
Fluoranthene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	206-44-0	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-7 (6-8') Lab ID: 10253812008 Collected: 12/26/13 09:15 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Fluorene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	193-39-5	
Naphthalene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	91-20-3	
Phenanthrene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	85-01-8	
Pyrene	ND mg/kg		0.012	1	01/07/14 10:43	01/07/14 22:59	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	61 %.		30-150	1	01/07/14 10:43	01/07/14 22:59	321-60-8	
Terphenyl-d14 (S)	78 %.		30-150	1	01/07/14 10:43	01/07/14 22:59	1718-51-0	
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.2	1	01/04/14 09:36	01/04/14 17:00	67-64-1	
Allyl chloride	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:00	107-05-1	
Benzene	ND mg/kg		0.023	1	01/04/14 09:36	01/04/14 17:00	71-43-2	
Bromobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	108-86-1	
Bromochloromethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	74-97-5	
Bromodichloromethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	75-27-4	
Bromoform	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:00	75-25-2	
Bromomethane	ND mg/kg		0.58	1	01/04/14 09:36	01/04/14 17:00	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.29	1	01/04/14 09:36	01/04/14 17:00	78-93-3	
n-Butylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	104-51-8	
sec-Butylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	135-98-8	
tert-Butylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	98-06-6	
Carbon tetrachloride	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	56-23-5	
Chlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	108-90-7	
Chloroethane	ND mg/kg		0.58	1	01/04/14 09:36	01/04/14 17:00	75-00-3	
Chloroform	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	67-66-3	
Chloromethane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:00	74-87-3	
2-Chlorotoluene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	95-49-8	
4-Chlorotoluene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.58	1	01/04/14 09:36	01/04/14 17:00	96-12-8	
Dibromochloromethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	106-93-4	
Dibromomethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.58	1	01/04/14 09:36	01/04/14 17:00	75-43-4	L3
1,2-Dichloropropane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:00	594-20-7	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

**Sample: WH-SB-GP-7 (6-8')**      **Lab ID: 10253812008**      Collected: 12/26/13 09:15      Received: 12/31/13 15:47      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
1,1-Dichloropropene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:00	60-29-7	
Ethylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.29	1	01/04/14 09:36	01/04/14 17:00	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	99-87-6	
Methylene Chloride	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.29	1	01/04/14 09:36	01/04/14 17:00	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	1634-04-4	
Naphthalene	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:00	91-20-3	
n-Propylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	103-65-1	
Styrene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	79-34-5	
Tetrachloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	127-18-4	
Tetrahydrofuran	ND mg/kg		2.3	1	01/04/14 09:36	01/04/14 17:00	109-99-9	
Toluene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	79-00-5	
Trichloroethene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:00	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.058	1	01/04/14 09:36	01/04/14 17:00	108-67-8	
Vinyl chloride	ND mg/kg		0.023	1	01/04/14 09:36	01/04/14 17:00	75-01-4	
Xylene (Total)	ND mg/kg		0.17	1	01/04/14 09:36	01/04/14 17:00	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100 %.		74-125	1	01/04/14 09:36	01/04/14 17:00	17060-07-0	
Toluene-d8 (S)	102 %.		75-125	1	01/04/14 09:36	01/04/14 17:00	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125	1	01/04/14 09:36	01/04/14 17:00	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

**Sample: WH-SB-GP-8 (2-4')** Lab ID: **10253812009** Collected: 12/26/13 09:05 Received: 12/31/13 15:47 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:08	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:08	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:08	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:08	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:08	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:08	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:08	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:08	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:08	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	88 %.		50-128	5	01/07/14 10:51	01/07/14 20:08	877-09-8	D3
Decachlorobiphenyl (S)	83 %.		55-130	5	01/07/14 10:51	01/07/14 20:08	2051-24-3	
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	154 mg/kg		95.3	2	01/04/14 09:02	01/06/14 17:38		T6
<b>Surrogates</b>								
n-Triacontane (S)	90 %.		50-150	2	01/04/14 09:02	01/06/14 17:38	638-68-6	
<b>WIDRO GCS Silica Gel</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	166 mg/kg		95.3	2	01/03/14 13:49	01/15/14 11:04		T6
<b>Surrogates</b>								
n-Triacontane (S)	108 %.		63-125	2	01/03/14 13:49	01/15/14 11:04	638-68-6	
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	1.2 mg/kg		1.1	1	01/06/14 07:40	01/07/14 23:22	7440-38-2	
Barium	42.8 mg/kg		0.57	1	01/06/14 07:40	01/07/14 23:22	7440-39-3	
Cadmium	ND mg/kg		0.17	1	01/06/14 07:40	01/07/14 23:22	7440-43-9	
Chromium	8.9 mg/kg		0.57	1	01/06/14 07:40	01/07/14 23:22	7440-47-3	
Lead	13.7 mg/kg		1.1	1	01/06/14 07:40	01/07/14 23:22	7439-92-1	
Selenium	2.8 mg/kg		0.85	1	01/06/14 07:40	01/07/14 23:22	7782-49-2	
Silver	ND mg/kg		0.57	1	01/06/14 07:40	01/07/14 23:22	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.033 mg/kg		0.022	1	01/06/14 08:07	01/07/14 12:27	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	14.6 %		0.10	1		01/06/14 00:00		
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	83-32-9	
Acenaphthylene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	208-96-8	
Anthracene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	205-99-2	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-8 (2-4') Lab ID: 10253812009 Collected: 12/26/13 09:05 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Benzo(g,h,i)perylene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	207-08-9	
Chrysene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	53-70-3	
Fluoranthene	<b>0.59</b> mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	206-44-0	
Fluorene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	193-39-5	
Naphthalene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	91-20-3	
Phenanthrene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	85-01-8	
Pyrene	ND mg/kg		0.59	5	01/07/14 10:43	01/08/14 02:27	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	0 %.		30-150	5	01/07/14 10:43	01/08/14 02:27	321-60-8	P3,S4
Terphenyl-d14 (S)	0 %.		30-150	5	01/07/14 10:43	01/08/14 02:27	1718-51-0	S4
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.2	1	01/04/14 09:36	01/04/14 17:19	67-64-1	
Allyl chloride	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:19	107-05-1	
Benzene	ND mg/kg		0.023	1	01/04/14 09:36	01/04/14 17:19	71-43-2	
Bromobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	108-86-1	
Bromochloromethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	74-97-5	
Bromodichloromethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	75-27-4	
Bromoform	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:19	75-25-2	
Bromomethane	ND mg/kg		0.59	1	01/04/14 09:36	01/04/14 17:19	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.29	1	01/04/14 09:36	01/04/14 17:19	78-93-3	
n-Butylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	104-51-8	
sec-Butylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	135-98-8	
tert-Butylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	98-06-6	
Carbon tetrachloride	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	56-23-5	
Chlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	108-90-7	
Chloroethane	ND mg/kg		0.59	1	01/04/14 09:36	01/04/14 17:19	75-00-3	
Chloroform	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	67-66-3	
Chloromethane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:19	74-87-3	
2-Chlorotoluene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	95-49-8	
4-Chlorotoluene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.59	1	01/04/14 09:36	01/04/14 17:19	96-12-8	
Dibromochloromethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	106-93-4	
Dibromomethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	156-59-2	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

**Sample: WH-SB-GP-8 (2-4')**      **Lab ID: 10253812009**      Collected: 12/26/13 09:05      Received: 12/31/13 15:47      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
trans-1,2-Dichloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.59	1	01/04/14 09:36	01/04/14 17:19	75-43-4	L3
1,2-Dichloropropane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:19	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:19	60-29-7	
Ethylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.29	1	01/04/14 09:36	01/04/14 17:19	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	99-87-6	
Methylene Chloride	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.29	1	01/04/14 09:36	01/04/14 17:19	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	1634-04-4	
Naphthalene	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:19	91-20-3	
n-Propylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	103-65-1	
Styrene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	79-34-5	
Tetrachloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	127-18-4	
Tetrahydrofuran	ND mg/kg		2.3	1	01/04/14 09:36	01/04/14 17:19	109-99-9	
Toluene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	79-00-5	
Trichloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:19	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.23	1	01/04/14 09:36	01/04/14 17:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:19	108-67-8	
Vinyl chloride	ND mg/kg		0.023	1	01/04/14 09:36	01/04/14 17:19	75-01-4	
Xylene (Total)	ND mg/kg		0.18	1	01/04/14 09:36	01/04/14 17:19	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101 %.		74-125	1	01/04/14 09:36	01/04/14 17:19	17060-07-0	
Toluene-d8 (S)	103 %.		75-125	1	01/04/14 09:36	01/04/14 17:19	2037-26-5	
4-Bromofluorobenzene (S)	99 %.		75-125	1	01/04/14 09:36	01/04/14 17:19	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

**Sample: WH-SB-GP-9 (6-8')** Lab ID: **10253812010** Collected: 12/26/13 10:40 Received: 12/31/13 15:47 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 19:36	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 19:36	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 19:36	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 19:36	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 19:36	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 19:36	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 19:36	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 19:36	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.036	1	01/07/14 10:51	01/07/14 19:36	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	83 %.		50-128	1	01/07/14 10:51	01/07/14 19:36	877-09-8	
Decachlorobiphenyl (S)	80 %.		55-130	1	01/07/14 10:51	01/07/14 19:36	2051-24-3	
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	ND mg/kg		9.5	1	01/04/14 09:02	01/06/14 16:16		
<b>Surrogates</b>								
n-Triacontane (S)	84 %.		50-150	1	01/04/14 09:02	01/06/14 16:16	638-68-6	
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	2.4 mg/kg		1.1	1	01/06/14 07:40	01/07/14 23:29	7440-38-2	
Barium	10.6 mg/kg		2.7	5	01/06/14 07:40	01/08/14 09:09	7440-39-3	
Cadmium	ND mg/kg		0.82	5	01/06/14 07:40	01/08/14 09:09	7440-43-9	
Chromium	3.0 mg/kg		0.54	1	01/06/14 07:40	01/07/14 23:29	7440-47-3	
Lead	14.0 mg/kg		5.4	5	01/06/14 07:40	01/08/14 09:09	7439-92-1	
Selenium	8.5 mg/kg		4.1	5	01/06/14 07:40	01/08/14 09:09	7782-49-2	
Silver	ND mg/kg		2.7	5	01/06/14 07:40	01/08/14 09:09	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg		0.020	1	01/06/14 08:07	01/07/14 12:29	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	9.0 %		0.10	1		01/06/14 00:00		
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	83-32-9	
Acenaphthylene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	208-96-8	
Anthracene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	207-08-9	
Chrysene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	53-70-3	
Fluoranthene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	206-44-0	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-9 (6-8') Lab ID: 10253812010 Collected: 12/26/13 10:40 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Fluorene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	193-39-5	
Naphthalene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	91-20-3	
Phenanthrene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	85-01-8	
Pyrene	ND mg/kg		0.011	1	01/07/14 10:43	01/07/14 23:18	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	65 %.		30-150	1	01/07/14 10:43	01/07/14 23:18	321-60-8	
Terphenyl-d14 (S)	79 %.		30-150	1	01/07/14 10:43	01/07/14 23:18	1718-51-0	
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.1	1	01/04/14 09:36	01/04/14 17:39	67-64-1	
Allyl chloride	ND mg/kg		0.22	1	01/04/14 09:36	01/04/14 17:39	107-05-1	
Benzene	ND mg/kg		0.022	1	01/04/14 09:36	01/04/14 17:39	71-43-2	
Bromobenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	108-86-1	
Bromochloromethane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	74-97-5	
Bromodichloromethane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	75-27-4	
Bromoform	ND mg/kg		0.22	1	01/04/14 09:36	01/04/14 17:39	75-25-2	
Bromomethane	ND mg/kg		0.56	1	01/04/14 09:36	01/04/14 17:39	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.28	1	01/04/14 09:36	01/04/14 17:39	78-93-3	
n-Butylbenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	104-51-8	
sec-Butylbenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	135-98-8	
tert-Butylbenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	98-06-6	
Carbon tetrachloride	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	56-23-5	
Chlorobenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	108-90-7	
Chloroethane	ND mg/kg		0.56	1	01/04/14 09:36	01/04/14 17:39	75-00-3	
Chloroform	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	67-66-3	
Chloromethane	ND mg/kg		0.22	1	01/04/14 09:36	01/04/14 17:39	74-87-3	
2-Chlorotoluene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	95-49-8	
4-Chlorotoluene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.56	1	01/04/14 09:36	01/04/14 17:39	96-12-8	
Dibromochloromethane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	106-93-4	
Dibromomethane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.56	1	01/04/14 09:36	01/04/14 17:39	75-43-4	L3
1,2-Dichloropropane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.22	1	01/04/14 09:36	01/04/14 17:39	594-20-7	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-9 (6-8') Lab ID: 10253812010 Collected: 12/26/13 10:40 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
1,1-Dichloropropene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.22	1	01/04/14 09:36	01/04/14 17:39	60-29-7	
Ethylbenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.28	1	01/04/14 09:36	01/04/14 17:39	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	99-87-6	
Methylene Chloride	ND mg/kg		0.22	1	01/04/14 09:36	01/04/14 17:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.28	1	01/04/14 09:36	01/04/14 17:39	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	1634-04-4	
Naphthalene	ND mg/kg		0.22	1	01/04/14 09:36	01/04/14 17:39	91-20-3	
n-Propylbenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	103-65-1	
Styrene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	79-34-5	
Tetrachloroethene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	127-18-4	
Tetrahydrofuran	ND mg/kg		2.2	1	01/04/14 09:36	01/04/14 17:39	109-99-9	
Toluene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	79-00-5	
Trichloroethene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.22	1	01/04/14 09:36	01/04/14 17:39	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.22	1	01/04/14 09:36	01/04/14 17:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.056	1	01/04/14 09:36	01/04/14 17:39	108-67-8	
Vinyl chloride	ND mg/kg		0.022	1	01/04/14 09:36	01/04/14 17:39	75-01-4	
Xylene (Total)	ND mg/kg		0.17	1	01/04/14 09:36	01/04/14 17:39	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100 %.		74-125	1	01/04/14 09:36	01/04/14 17:39	17060-07-0	
Toluene-d8 (S)	103 %.		75-125	1	01/04/14 09:36	01/04/14 17:39	2037-26-5	
4-Bromofluorobenzene (S)	100 %.		75-125	1	01/04/14 09:36	01/04/14 17:39	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-10 (2-4') Lab ID: 10253812011 Collected: 12/26/13 11:30 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:52	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:52	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:52	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:52	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:52	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:52	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:52	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:52	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.038	1	01/07/14 10:51	01/07/14 19:52	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	78 %.		50-128	1	01/07/14 10:51	01/07/14 19:52	877-09-8	
Decachlorobiphenyl (S)	73 %.		55-130	1	01/07/14 10:51	01/07/14 19:52	2051-24-3	
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	<b>63.9</b> mg/kg		46.2	5	01/04/14 09:02	01/06/14 14:59		T6
<b>Surrogates</b>								
n-Triacontane (S)	103 %.		50-150	5	01/04/14 09:02	01/06/14 14:59	638-68-6	
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	<b>1.9</b> mg/kg		1.0	1	01/06/14 07:40	01/07/14 23:35	7440-38-2	
Barium	<b>79.8</b> mg/kg		0.52	1	01/06/14 07:40	01/07/14 23:35	7440-39-3	
Cadmium	<b>0.50</b> mg/kg		0.15	1	01/06/14 07:40	01/07/14 23:35	7440-43-9	
Chromium	<b>12.4</b> mg/kg		0.52	1	01/06/14 07:40	01/07/14 23:35	7440-47-3	
Lead	<b>85.3</b> mg/kg		1.0	1	01/06/14 07:40	01/07/14 23:35	7439-92-1	
Selenium	<b>3.1</b> mg/kg		0.77	1	01/06/14 07:40	01/07/14 23:35	7782-49-2	
Silver	<b>0.96</b> mg/kg		0.52	1	01/06/14 07:40	01/07/14 23:35	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	<b>0.27</b> mg/kg		0.023	1	01/06/14 08:07	01/07/14 12:31	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	<b>13.5</b> %		0.10	1		01/06/14 00:00		
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	ND mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	83-32-9	
Acenaphthylene	ND mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	208-96-8	
Anthracene	ND mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	56-55-3	
Benzo(a)pyrene	<b>0.064</b> mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	50-32-8	
Benzo(b)fluoranthene	<b>0.084</b> mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	207-08-9	
Chrysene	<b>0.080</b> mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	53-70-3	
Fluoranthene	<b>0.18</b> mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	206-44-0	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-10 (2-4') Lab ID: 10253812011 Collected: 12/26/13 11:30 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Fluorene	ND mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	193-39-5	
Naphthalene	ND mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	91-20-3	
Phenanthrene	ND mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	85-01-8	
Pyrene	<b>0.18</b> mg/kg		0.058	5	01/07/14 10:43	01/08/14 02:46	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	57 %.		30-150	5	01/07/14 10:43	01/08/14 02:46	321-60-8	
Terphenyl-d14 (S)	62 %.		30-150	5	01/07/14 10:43	01/08/14 02:46	1718-51-0	
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.2	1	01/04/14 09:36	01/04/14 17:58	67-64-1	
Allyl chloride	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 17:58	107-05-1	
Benzene	ND mg/kg		0.024	1	01/04/14 09:36	01/04/14 17:58	71-43-2	
Bromobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	108-86-1	
Bromochloromethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	74-97-5	
Bromodichloromethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	75-27-4	
Bromoform	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 17:58	75-25-2	
Bromomethane	ND mg/kg		0.59	1	01/04/14 09:36	01/04/14 17:58	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.30	1	01/04/14 09:36	01/04/14 17:58	78-93-3	
n-Butylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	104-51-8	
sec-Butylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	135-98-8	
tert-Butylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	98-06-6	
Carbon tetrachloride	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	56-23-5	
Chlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	108-90-7	
Chloroethane	ND mg/kg		0.59	1	01/04/14 09:36	01/04/14 17:58	75-00-3	
Chloroform	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	67-66-3	
Chloromethane	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 17:58	74-87-3	
2-Chlorotoluene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	95-49-8	
4-Chlorotoluene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.59	1	01/04/14 09:36	01/04/14 17:58	96-12-8	
Dibromochloromethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	106-93-4	
Dibromomethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.59	1	01/04/14 09:36	01/04/14 17:58	75-43-4	L3
1,2-Dichloropropane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 17:58	594-20-7	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-10 (2-4') Lab ID: 10253812011 Collected: 12/26/13 11:30 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
1,1-Dichloropropene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 17:58	60-29-7	
Ethylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.30	1	01/04/14 09:36	01/04/14 17:58	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	99-87-6	
Methylene Chloride	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 17:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.30	1	01/04/14 09:36	01/04/14 17:58	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	1634-04-4	
Naphthalene	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 17:58	91-20-3	
n-Propylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	103-65-1	
Styrene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	79-34-5	
Tetrachloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	127-18-4	
Tetrahydrofuran	ND mg/kg		2.4	1	01/04/14 09:36	01/04/14 17:58	109-99-9	
Toluene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	79-00-5	
Trichloroethene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 17:58	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 17:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.059	1	01/04/14 09:36	01/04/14 17:58	108-67-8	
Vinyl chloride	ND mg/kg		0.024	1	01/04/14 09:36	01/04/14 17:58	75-01-4	
Xylene (Total)	ND mg/kg		0.18	1	01/04/14 09:36	01/04/14 17:58	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100 %.		74-125	1	01/04/14 09:36	01/04/14 17:58	17060-07-0	
Toluene-d8 (S)	103 %.		75-125	1	01/04/14 09:36	01/04/14 17:58	2037-26-5	
4-Bromofluorobenzene (S)	102 %.		75-125	1	01/04/14 09:36	01/04/14 17:58	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

---

**Sample: WH-SB-GP-11 (6-8')**      Lab ID: **10253812012**      Collected: 12/26/13 14:10      Received: 12/31/13 15:47      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:24	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:24	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:24	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:24	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:24	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:24	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:24	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:24	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.19	5	01/07/14 10:51	01/07/14 20:24	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	82 %.		50-128	5	01/07/14 10:51	01/07/14 20:24	877-09-8	D3
Decachlorobiphenyl (S)	81 %.		55-130	5	01/07/14 10:51	01/07/14 20:24	2051-24-3	
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	124 mg/kg		89.1	2	01/04/14 09:02	01/06/14 17:45		T6
<b>Surrogates</b>								
n-Triacontane (S)	101 %.		50-150	2	01/04/14 09:02	01/06/14 17:45	638-68-6	
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND mg/kg		0.94	1	01/06/14 07:40	01/07/14 23:42	7440-38-2	
Barium	40.7 mg/kg		0.47	1	01/06/14 07:40	01/07/14 23:42	7440-39-3	
Cadmium	0.20 mg/kg		0.14	1	01/06/14 07:40	01/07/14 23:42	7440-43-9	
Chromium	11.3 mg/kg		0.47	1	01/06/14 07:40	01/07/14 23:42	7440-47-3	
Lead	77.6 mg/kg		0.94	1	01/06/14 07:40	01/07/14 23:42	7439-92-1	
Selenium	2.1 mg/kg		0.70	1	01/06/14 07:40	01/07/14 23:42	7782-49-2	
Silver	ND mg/kg		0.47	1	01/06/14 07:40	01/07/14 23:42	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.030 mg/kg		0.023	1	01/06/14 08:07	01/07/14 12:33	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	13.9 %		0.10	1		01/06/14 00:00		
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	83-32-9	
Acenaphthylene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	208-96-8	
Anthracene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	207-08-9	
Chrysene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	53-70-3	
Fluoranthene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	206-44-0	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-11 (6-8') Lab ID: 10253812012 Collected: 12/26/13 14:10 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Fluorene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	193-39-5	
Naphthalene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	91-20-3	
Phenanthrene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	85-01-8	
Pyrene	ND mg/kg		0.58	5	01/07/14 10:43	01/08/14 03:05	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	0 %.		30-150	5	01/07/14 10:43	01/08/14 03:05	321-60-8	P3,S4
Terphenyl-d14 (S)	0 %.		30-150	5	01/07/14 10:43	01/08/14 03:05	1718-51-0	S4
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.2	1	01/04/14 09:36	01/04/14 18:16	67-64-1	
Allyl chloride	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 18:16	107-05-1	
Benzene	ND mg/kg		0.024	1	01/04/14 09:36	01/04/14 18:16	71-43-2	
Bromobenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	108-86-1	
Bromochloromethane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	74-97-5	
Bromodichloromethane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	75-27-4	
Bromoform	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 18:16	75-25-2	
Bromomethane	ND mg/kg		0.60	1	01/04/14 09:36	01/04/14 18:16	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.30	1	01/04/14 09:36	01/04/14 18:16	78-93-3	
n-Butylbenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	104-51-8	
sec-Butylbenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	135-98-8	
tert-Butylbenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	98-06-6	
Carbon tetrachloride	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	56-23-5	
Chlorobenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	108-90-7	
Chloroethane	ND mg/kg		0.60	1	01/04/14 09:36	01/04/14 18:16	75-00-3	
Chloroform	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	67-66-3	
Chloromethane	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 18:16	74-87-3	
2-Chlorotoluene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	95-49-8	
4-Chlorotoluene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.60	1	01/04/14 09:36	01/04/14 18:16	96-12-8	
Dibromochloromethane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	106-93-4	
Dibromomethane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.60	1	01/04/14 09:36	01/04/14 18:16	75-43-4	L3
1,2-Dichloropropane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 18:16	594-20-7	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

---

**Sample: WH-SB-GP-11 (6-8')**      Lab ID: **10253812012**      Collected: 12/26/13 14:10      Received: 12/31/13 15:47      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
1,1-Dichloropropene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 18:16	60-29-7	
Ethylbenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.30	1	01/04/14 09:36	01/04/14 18:16	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	99-87-6	
Methylene Chloride	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 18:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.30	1	01/04/14 09:36	01/04/14 18:16	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	1634-04-4	
Naphthalene	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 18:16	91-20-3	
n-Propylbenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	103-65-1	
Styrene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	79-34-5	
Tetrachloroethene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	127-18-4	
Tetrahydrofuran	ND mg/kg		2.4	1	01/04/14 09:36	01/04/14 18:16	109-99-9	
Toluene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	79-00-5	
Trichloroethene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 18:16	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.24	1	01/04/14 09:36	01/04/14 18:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.060	1	01/04/14 09:36	01/04/14 18:16	108-67-8	
Vinyl chloride	ND mg/kg		0.024	1	01/04/14 09:36	01/04/14 18:16	75-01-4	
Xylene (Total)	ND mg/kg		0.18	1	01/04/14 09:36	01/04/14 18:16	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100 %.		74-125	1	01/04/14 09:36	01/04/14 18:16	17060-07-0	
Toluene-d8 (S)	103 %.		75-125	1	01/04/14 09:36	01/04/14 18:16	2037-26-5	
4-Bromofluorobenzene (S)	102 %.		75-125	1	01/04/14 09:36	01/04/14 18:16	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

Sample: WH-SB-GP-12 (2-4') Lab ID: 10253812013 Collected: 12/26/13 14:40 Received: 12/31/13 15:47 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:40	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:40	12672-29-6	
PCB-1254 (Aroclor 1254)	<b>0.21</b> mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:40	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:40	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:40	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:40	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	85 %.		50-128	5	01/07/14 10:51	01/07/14 20:40	877-09-8	D3
Decachlorobiphenyl (S)	82 %.		55-130	5	01/07/14 10:51	01/07/14 20:40	2051-24-3	
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	<b>127</b> mg/kg		87.2	2	01/04/14 09:02	01/06/14 17:52		T6
<b>Surrogates</b>								
n-Triacontane (S)	103 %.		50-150	2	01/04/14 09:02	01/06/14 17:52	638-68-6	
<b>WIDRO GCS Silica Gel</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	<b>107</b> mg/kg		87.2	2	01/03/14 13:49	01/15/14 11:11		T6
<b>Surrogates</b>								
n-Triacontane (S)	111 %.		63-125	2	01/03/14 13:49	01/15/14 11:11	638-68-6	
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND mg/kg		1.0	1	01/06/14 07:40	01/07/14 23:49	7440-38-2	
Barium	<b>28.8</b> mg/kg		0.51	1	01/06/14 07:40	01/07/14 23:49	7440-39-3	
Cadmium	ND mg/kg		0.15	1	01/06/14 07:40	01/07/14 23:49	7440-43-9	
Chromium	<b>14.2</b> mg/kg		0.51	1	01/06/14 07:40	01/07/14 23:49	7440-47-3	
Lead	<b>142</b> mg/kg		1.0	1	01/06/14 07:40	01/07/14 23:49	7439-92-1	
Selenium	<b>2.6</b> mg/kg		0.76	1	01/06/14 07:40	01/07/14 23:49	7782-49-2	
Silver	ND mg/kg		0.51	1	01/06/14 07:40	01/07/14 23:49	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	<b>0.059</b> mg/kg		0.021	1	01/06/14 08:07	01/07/14 12:35	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	<b>6.3</b> %		0.10	1			01/06/14 00:00	
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	83-32-9	
Acenaphthylene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	208-96-8	
Anthracene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	205-99-2	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-12 (2-4') Lab ID: 10253812013 Collected: 12/26/13 14:40 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Benzo(g,h,i)perylene	<b>0.62</b> mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	207-08-9	
Chrysene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	53-70-3	
Fluoranthene	<b>0.74</b> mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	206-44-0	
Fluorene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	193-39-5	
Naphthalene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	91-20-3	
Phenanthrene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	85-01-8	
Pyrene	<b>0.80</b> mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:24	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	0 %.	30-150	5	01/07/14 10:43	01/08/14 03:24	321-60-8		P3,S4
Terphenyl-d14 (S)	0 %.	30-150	5	01/07/14 10:43	01/08/14 03:24	1718-51-0		S4
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.1	1	01/07/14 15:54	01/07/14 18:43	67-64-1	
Allyl chloride	ND mg/kg		0.21	1	01/07/14 15:54	01/07/14 18:43	107-05-1	
Benzene	ND mg/kg		0.021	1	01/07/14 15:54	01/07/14 18:43	71-43-2	
Bromobenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	108-86-1	
Bromochloromethane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	74-97-5	
Bromodichloromethane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	75-27-4	
Bromoform	ND mg/kg		0.21	1	01/07/14 15:54	01/07/14 18:43	75-25-2	
Bromomethane	ND mg/kg		0.53	1	01/07/14 15:54	01/07/14 18:43	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.27	1	01/07/14 15:54	01/07/14 18:43	78-93-3	
n-Butylbenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	104-51-8	
sec-Butylbenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	135-98-8	
tert-Butylbenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	98-06-6	
Carbon tetrachloride	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	56-23-5	
Chlorobenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	108-90-7	
Chloroethane	ND mg/kg		0.53	1	01/07/14 15:54	01/07/14 18:43	75-00-3	
Chloroform	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	67-66-3	
Chloromethane	ND mg/kg		0.21	1	01/07/14 15:54	01/07/14 18:43	74-87-3	
2-Chlorotoluene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	95-49-8	
4-Chlorotoluene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.53	1	01/07/14 15:54	01/07/14 18:43	96-12-8	
Dibromochloromethane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	106-93-4	
Dibromomethane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	156-59-2	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-12 (2-4') Lab ID: 10253812013 Collected: 12/26/13 14:40 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
trans-1,2-Dichloroethene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.53	1	01/07/14 15:54	01/07/14 18:43	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.21	1	01/07/14 15:54	01/07/14 18:43	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.21	1	01/07/14 15:54	01/07/14 18:43	60-29-7	
Ethylbenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.27	1	01/07/14 15:54	01/07/14 18:43	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	99-87-6	
Methylene Chloride	ND mg/kg		0.21	1	01/07/14 15:54	01/07/14 18:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.27	1	01/07/14 15:54	01/07/14 18:43	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	1634-04-4	
Naphthalene	ND mg/kg		0.21	1	01/07/14 15:54	01/07/14 18:43	91-20-3	
n-Propylbenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	103-65-1	
Styrene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	79-34-5	
Tetrachloroethene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	127-18-4	
Tetrahydrofuran	ND mg/kg		2.1	1	01/07/14 15:54	01/07/14 18:43	109-99-9	
Toluene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	79-00-5	
Trichloroethene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.21	1	01/07/14 15:54	01/07/14 18:43	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.21	1	01/07/14 15:54	01/07/14 18:43	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.053	1	01/07/14 15:54	01/07/14 18:43	108-67-8	
Vinyl chloride	ND mg/kg		0.021	1	01/07/14 15:54	01/07/14 18:43	75-01-4	
Xylene (Total)	ND mg/kg		0.16	1	01/07/14 15:54	01/07/14 18:43	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93 %.		74-125	1	01/07/14 15:54	01/07/14 18:43	17060-07-0	
Toluene-d8 (S)	98 %.		75-125	1	01/07/14 15:54	01/07/14 18:43	2037-26-5	
4-Bromofluorobenzene (S)	100 %.		75-125	1	01/07/14 15:54	01/07/14 18:43	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-12 (2-4')-FD Lab ID: 10253812014 Collected: 12/26/13 14:40 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>	Analytical Method: EPA 8082 Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:56	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:56	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:56	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:56	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:56	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:56	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:56	11096-82-5	
PCB-1262 (Aroclor 1262)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:56	37324-23-5	
PCB-1268 (Aroclor 1268)	ND mg/kg		0.18	5	01/07/14 10:51	01/07/14 20:56	11100-14-4	
<b>Surrogates</b>								
Tetrachloro-m-xylene (S)	86 %.		50-128	5	01/07/14 10:51	01/07/14 20:56	877-09-8	
Decachlorobiphenyl (S)	85 %.		55-130	5	01/07/14 10:51	01/07/14 20:56	2051-24-3	
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	137 mg/kg		86.6	2	01/04/14 09:02	01/06/14 17:59		T6
<b>Surrogates</b>								
n-Triacontane (S)	124 %.		50-150	2	01/04/14 09:02	01/06/14 17:59	638-68-6	
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND mg/kg		0.84	1	01/06/14 07:40	01/07/14 23:55	7440-38-2	
Barium	25.2 mg/kg		0.42	1	01/06/14 07:40	01/07/14 23:55	7440-39-3	
Cadmium	ND mg/kg		0.13	1	01/06/14 07:40	01/07/14 23:55	7440-43-9	
Chromium	10.5 mg/kg		0.42	1	01/06/14 07:40	01/07/14 23:55	7440-47-3	
Lead	87.4 mg/kg		0.84	1	01/06/14 07:40	01/07/14 23:55	7439-92-1	
Selenium	2.6 mg/kg		0.63	1	01/06/14 07:40	01/07/14 23:55	7782-49-2	
Silver	ND mg/kg		0.42	1	01/06/14 07:40	01/07/14 23:55	7440-22-4	
<b>7471 Mercury</b>	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.22 mg/kg		0.020	1	01/06/14 08:07	01/07/14 12:37	7439-97-6	
<b>Dry Weight</b>	Analytical Method: ASTM D2974							
Percent Moisture	6.0 %		0.10	1		01/06/14 00:00		
<b>8270 MSSV PAH by SIM</b>	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Acenaphthene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	83-32-9	
Acenaphthylene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	208-96-8	
Anthracene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	120-12-7	
Benzo(a)anthracene	1.1 mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	56-55-3	
Benzo(a)pyrene	1.2 mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	50-32-8	
Benzo(b)fluoranthene	1.4 mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	205-99-2	
Benzo(g,h,i)perylene	0.83 mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	207-08-9	
Chrysene	1.0 mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	53-70-3	
Fluoranthene	2.8 mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	206-44-0	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-12 (2-4')-FD Lab ID: 10253812014 Collected: 12/26/13 14:40 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Fluorene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.86</b> mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	193-39-5	
Naphthalene	ND mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	91-20-3	
Phenanthrene	<b>1.7</b> mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	85-01-8	
Pyrene	<b>2.3</b> mg/kg		0.53	5	01/07/14 10:43	01/08/14 03:43	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	0 %.		30-150	5	01/07/14 10:43	01/08/14 03:43	321-60-8	P3,S4
Terphenyl-d14 (S)	0 %.		30-150	5	01/07/14 10:43	01/08/14 03:43	1718-51-0	S4
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.1	1	01/07/14 15:54	01/07/14 19:01	67-64-1	
Allyl chloride	ND mg/kg		0.22	1	01/07/14 15:54	01/07/14 19:01	107-05-1	
Benzene	ND mg/kg		0.022	1	01/07/14 15:54	01/07/14 19:01	71-43-2	
Bromobenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	108-86-1	
Bromochloromethane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	74-97-5	
Bromodichloromethane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	75-27-4	
Bromoform	ND mg/kg		0.22	1	01/07/14 15:54	01/07/14 19:01	75-25-2	
Bromomethane	ND mg/kg		0.54	1	01/07/14 15:54	01/07/14 19:01	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.27	1	01/07/14 15:54	01/07/14 19:01	78-93-3	
n-Butylbenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	104-51-8	
sec-Butylbenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	135-98-8	
tert-Butylbenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	98-06-6	
Carbon tetrachloride	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	56-23-5	
Chlorobenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	108-90-7	
Chloroethane	ND mg/kg		0.54	1	01/07/14 15:54	01/07/14 19:01	75-00-3	
Chloroform	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	67-66-3	
Chloromethane	ND mg/kg		0.22	1	01/07/14 15:54	01/07/14 19:01	74-87-3	
2-Chlorotoluene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	95-49-8	
4-Chlorotoluene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.54	1	01/07/14 15:54	01/07/14 19:01	96-12-8	
Dibromochloromethane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	106-93-4	
Dibromomethane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.54	1	01/07/14 15:54	01/07/14 19:01	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.22	1	01/07/14 15:54	01/07/14 19:01	594-20-7	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Sample: WH-SB-GP-12 (2-4')-FD Lab ID: 10253812014 Collected: 12/26/13 14:40 Received: 12/31/13 15:47 Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
1,1-Dichloropropene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.22	1	01/07/14 15:54	01/07/14 19:01	60-29-7	
Ethylbenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.27	1	01/07/14 15:54	01/07/14 19:01	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	99-87-6	
Methylene Chloride	ND mg/kg		0.22	1	01/07/14 15:54	01/07/14 19:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.27	1	01/07/14 15:54	01/07/14 19:01	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	1634-04-4	
Naphthalene	ND mg/kg		0.22	1	01/07/14 15:54	01/07/14 19:01	91-20-3	
n-Propylbenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	103-65-1	
Styrene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	79-34-5	
Tetrachloroethene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	127-18-4	
Tetrahydrofuran	ND mg/kg		2.2	1	01/07/14 15:54	01/07/14 19:01	109-99-9	
Toluene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	79-00-5	
Trichloroethene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.22	1	01/07/14 15:54	01/07/14 19:01	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.22	1	01/07/14 15:54	01/07/14 19:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.054	1	01/07/14 15:54	01/07/14 19:01	108-67-8	
Vinyl chloride	ND mg/kg		0.022	1	01/07/14 15:54	01/07/14 19:01	75-01-4	
Xylene (Total)	ND mg/kg		0.16	1	01/07/14 15:54	01/07/14 19:01	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94 %.		74-125	1	01/07/14 15:54	01/07/14 19:01	17060-07-0	
Toluene-d8 (S)	99 %.		75-125	1	01/07/14 15:54	01/07/14 19:01	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125	1	01/07/14 15:54	01/07/14 19:01	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

---

**Sample: WH-SB-TB**      **Lab ID: 10253812015**      Collected: 12/26/13 00:00      Received: 12/31/13 15:47      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND mg/kg		1.0	1	01/07/14 15:54	01/07/14 17:51	67-64-1	
Allyl chloride	ND mg/kg		0.20	1	01/07/14 15:54	01/07/14 17:51	107-05-1	
Benzene	ND mg/kg		0.020	1	01/07/14 15:54	01/07/14 17:51	71-43-2	
Bromobenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	108-86-1	
Bromochloromethane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	74-97-5	
Bromodichloromethane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	75-27-4	
Bromoform	ND mg/kg		0.20	1	01/07/14 15:54	01/07/14 17:51	75-25-2	
Bromomethane	ND mg/kg		0.50	1	01/07/14 15:54	01/07/14 17:51	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.25	1	01/07/14 15:54	01/07/14 17:51	78-93-3	
n-Butylbenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	104-51-8	
sec-Butylbenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	135-98-8	
tert-Butylbenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	98-06-6	
Carbon tetrachloride	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	56-23-5	
Chlorobenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	108-90-7	
Chloroethane	ND mg/kg		0.50	1	01/07/14 15:54	01/07/14 17:51	75-00-3	
Chloroform	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	67-66-3	
Chloromethane	ND mg/kg		0.20	1	01/07/14 15:54	01/07/14 17:51	74-87-3	
2-Chlorotoluene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	95-49-8	
4-Chlorotoluene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.50	1	01/07/14 15:54	01/07/14 17:51	96-12-8	
Dibromochloromethane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	106-93-4	
Dibromomethane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.50	1	01/07/14 15:54	01/07/14 17:51	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.20	1	01/07/14 15:54	01/07/14 17:51	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.20	1	01/07/14 15:54	01/07/14 17:51	60-29-7	
Ethylbenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.25	1	01/07/14 15:54	01/07/14 17:51	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	99-87-6	
Methylene Chloride	ND mg/kg		0.20	1	01/07/14 15:54	01/07/14 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.25	1	01/07/14 15:54	01/07/14 17:51	108-10-1	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

**Sample: WH-SB-TB**      Lab ID: **10253812015**      Collected: 12/26/13 00:00      Received: 12/31/13 15:47      Matrix: Solid

**Results reported on a "wet-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	1634-04-4	
Naphthalene	ND mg/kg		0.20	1	01/07/14 15:54	01/07/14 17:51	91-20-3	
n-Propylbenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	103-65-1	
Styrene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	79-34-5	
Tetrachloroethene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	127-18-4	
Tetrahydrofuran	ND mg/kg		2.0	1	01/07/14 15:54	01/07/14 17:51	109-99-9	
Toluene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	79-00-5	
Trichloroethene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.20	1	01/07/14 15:54	01/07/14 17:51	75-69-4	
1,2,3-Trichloroproppane	ND mg/kg		0.20	1	01/07/14 15:54	01/07/14 17:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.050	1	01/07/14 15:54	01/07/14 17:51	108-67-8	
Vinyl chloride	ND mg/kg		0.020	1	01/07/14 15:54	01/07/14 17:51	75-01-4	
Xylene (Total)	ND mg/kg		0.15	1	01/07/14 15:54	01/07/14 17:51	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96 %.		74-125	1	01/07/14 15:54	01/07/14 17:51	17060-07-0	
Toluene-d8 (S)	101 %.		75-125	1	01/07/14 15:54	01/07/14 17:51	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125	1	01/07/14 15:54	01/07/14 17:51	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

QC Batch:	MERP/9889	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007, 10253812008, 10253812009, 10253812010, 10253812011, 10253812012, 10253812013, 10253812014		

METHOD BLANK:	1603978	Matrix:	Solid
Associated Lab Samples:	10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007, 10253812008, 10253812009, 10253812010, 10253812011, 10253812012, 10253812013, 10253812014		

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Mercury	mg/kg	ND	0.020	01/07/14 11:41	

LABORATORY CONTROL SAMPLE: 1603979

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Mercury	mg/kg	.48	0.51	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1603980 1603981

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	
		10253812007	Spike								Spike
Mercury	mg/kg	0.020	.5	.52	0.54	0.57	104	105	80-120	4	20

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..



**Pace Analytical Services, Inc.**  
1700 Elm Street - Suite 200  
Minneapolis, MN 55414  
(612)607-1700

## **QUALITY CONTROL DATA**

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

QC Batch: MPRP/43964 Analysis Method: EPA 6010

QC Batch Method: EPA 3050 Analysis Description: 6010 METT

Associated Lab Samples: 10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007, 10253812008, 10253812009, 10253812010, 10253812011, 10253812012, 10253812013, 10253812014

METHOD BLANK: 1603789 Matrix: Solid

Associated Lab Samples: 10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007, 10253812008, 10253812009, 10253812010, 10253812011, 10253812012, 10253812013, 10253812014

Parameter	Units	Blank Result	Reporting Limit		Analyzed	Qualifiers
			Limit	Value		
Arsenic	mg/kg	ND	0.98	01/07/14 21:33		
Barium	mg/kg	ND	0.49	01/07/14 21:33		
Cadmium	mg/kg	ND	0.15	01/07/14 21:33		
Chromium	mg/kg	ND	0.49	01/07/14 21:33		
Lead	mg/kg	ND	0.98	01/07/14 21:33		
Selenium	mg/kg	ND	0.74	01/07/14 21:33		
Silver	mg/kg	ND	0.49	01/07/14 21:33		

LABORATORY CONTROL SAMPLE: 1603790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	48.1	47.3	98	80-120	
Barium	mg/kg	48.1	49.7	103	80-120	
Cadmium	mg/kg	48.1	46.8	97	80-120	
Chromium	mg/kg	48.1	49.3	102	80-120	
Lead	mg/kg	48.1	48.0	100	80-120	
Selenium	mg/kg	48.1	44.6	93	80-120	
Silver	mg/kg	24	23.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1603791 1603792

Parameter	10253812007		MS		MSD		MS		MSD		% Rec		Max RPD	
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	Limits	RPD	RPD	Qual		
Arsenic	mg/kg	ND	52.6	53.1	55.0	52.4	103	97	75-125	5	30			
Barium	mg/kg	36.0	52.6	53.1	88.5	82.4	100	87	75-125	7	30			
Cadmium	mg/kg	ND	52.6	53.1	51.7	50.9	98	96	75-125	2	30			
Chromium	mg/kg	11.6	52.6	53.1	66.9	64.0	105	99	75-125	4	30			
Lead	mg/kg	57.7	52.6	53.1	105	125	89	126	75-125	18	30	M1		
Selenium	mg/kg	ND	52.6	53.1	54.3	50.4	103	95	75-125	8	30			
Silver	mg/kg	ND	26.3	26.6	26.9	27.1	102	102	75-125	.6	30			

## **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc.

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

QC Batch:	MPRP/43978	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007, 10253812008, 10253812009, 10253812010, 10253812011, 10253812012, 10253812013, 10253812014		

SAMPLE DUPLICATE: 1604448

Parameter	Units	10252512006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.2	18.5	2	30	

SAMPLE DUPLICATE: 1604449

Parameter	Units	10253910002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.4	21.8	6	30	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

---

QC Batch:	MSV/26070	Analysis Method:	EPA 8260
QC Batch Method:	EPA 5035/5030B	Analysis Description:	8260 MSV 5030 Med Level
Associated Lab Samples:	10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007, 10253812008, 10253812009, 10253812010, 10253812011, 10253812012		

---

METHOD BLANK: 1603832 Matrix: Solid

Associated Lab Samples: 10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007,  
10253812008, 10253812009, 10253812010, 10253812011, 10253812012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.050	01/04/14 12:05	
1,1,1-Trichloroethane	mg/kg	ND	0.050	01/04/14 12:05	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.050	01/04/14 12:05	
1,1,2-Trichloroethane	mg/kg	ND	0.050	01/04/14 12:05	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.050	01/04/14 12:05	
1,1-Dichloroethane	mg/kg	ND	0.050	01/04/14 12:05	
1,1-Dichloroethene	mg/kg	ND	0.050	01/04/14 12:05	
1,1-Dichloropropene	mg/kg	ND	0.050	01/04/14 12:05	
1,2,3-Trichlorobenzene	mg/kg	ND	0.050	01/04/14 12:05	
1,2,3-Trichloropropane	mg/kg	ND	0.20	01/04/14 12:05	
1,2,4-Trichlorobenzene	mg/kg	ND	0.050	01/04/14 12:05	
1,2,4-Trimethylbenzene	mg/kg	ND	0.050	01/04/14 12:05	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.50	01/04/14 12:05	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.050	01/04/14 12:05	
1,2-Dichlorobenzene	mg/kg	ND	0.050	01/04/14 12:05	
1,2-Dichloroethane	mg/kg	ND	0.050	01/04/14 12:05	
1,2-Dichloropropene	mg/kg	ND	0.050	01/04/14 12:05	
1,3,5-Trimethylbenzene	mg/kg	ND	0.050	01/04/14 12:05	
1,3-Dichlorobenzene	mg/kg	ND	0.050	01/04/14 12:05	
1,3-Dichloropropane	mg/kg	ND	0.050	01/04/14 12:05	
1,4-Dichlorobenzene	mg/kg	ND	0.050	01/04/14 12:05	
2,2-Dichloropropane	mg/kg	ND	0.20	01/04/14 12:05	
2-Butanone (MEK)	mg/kg	ND	0.25	01/04/14 12:05	
2-Chlorotoluene	mg/kg	ND	0.050	01/04/14 12:05	
4-Chlorotoluene	mg/kg	ND	0.050	01/04/14 12:05	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.25	01/04/14 12:05	
Acetone	mg/kg	ND	1.0	01/04/14 12:05	
Allyl chloride	mg/kg	ND	0.20	01/04/14 12:05	
Benzene	mg/kg	ND	0.020	01/04/14 12:05	
Bromobenzene	mg/kg	ND	0.050	01/04/14 12:05	
Bromochloromethane	mg/kg	ND	0.050	01/04/14 12:05	
Bromodichloromethane	mg/kg	ND	0.050	01/04/14 12:05	
Bromoform	mg/kg	ND	0.20	01/04/14 12:05	
Bromomethane	mg/kg	ND	0.50	01/04/14 12:05	
Carbon tetrachloride	mg/kg	ND	0.050	01/04/14 12:05	
Chlorobenzene	mg/kg	ND	0.050	01/04/14 12:05	
Chloroethane	mg/kg	ND	0.50	01/04/14 12:05	
Chloroform	mg/kg	ND	0.050	01/04/14 12:05	
Chloromethane	mg/kg	ND	0.20	01/04/14 12:05	
cis-1,2-Dichloroethene	mg/kg	ND	0.050	01/04/14 12:05	
cis-1,3-Dichloropropene	mg/kg	ND	0.050	01/04/14 12:05	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

METHOD BLANK: 1603832

Matrix: Solid

Associated Lab Samples: 10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007,  
10253812008, 10253812009, 10253812010, 10253812011, 10253812012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	mg/kg	ND	0.050	01/04/14 12:05	
Dibromomethane	mg/kg	ND	0.050	01/04/14 12:05	
Dichlorodifluoromethane	mg/kg	ND	0.050	01/04/14 12:05	
Dichlorofluoromethane	mg/kg	ND	0.50	01/04/14 12:05	
Diethyl ether (Ethyl ether)	mg/kg	ND	0.20	01/04/14 12:05	
Ethylbenzene	mg/kg	ND	0.050	01/04/14 12:05	
Hexachloro-1,3-butadiene	mg/kg	ND	0.25	01/04/14 12:05	
Isopropylbenzene (Cumene)	mg/kg	ND	0.050	01/04/14 12:05	
Methyl-tert-butyl ether	mg/kg	ND	0.050	01/04/14 12:05	
Methylene Chloride	mg/kg	ND	0.20	01/04/14 12:05	
n-Butylbenzene	mg/kg	ND	0.050	01/04/14 12:05	
n-Propylbenzene	mg/kg	ND	0.050	01/04/14 12:05	
Naphthalene	mg/kg	ND	0.20	01/04/14 12:05	
p-Isopropyltoluene	mg/kg	ND	0.050	01/04/14 12:05	
sec-Butylbenzene	mg/kg	ND	0.050	01/04/14 12:05	
Styrene	mg/kg	ND	0.050	01/04/14 12:05	
tert-Butylbenzene	mg/kg	ND	0.050	01/04/14 12:05	
Tetrachloroethene	mg/kg	ND	0.050	01/04/14 12:05	
Tetrahydrofuran	mg/kg	ND	2.0	01/04/14 12:05	
Toluene	mg/kg	ND	0.050	01/04/14 12:05	
trans-1,2-Dichloroethene	mg/kg	ND	0.050	01/04/14 12:05	
trans-1,3-Dichloropropene	mg/kg	ND	0.050	01/04/14 12:05	
Trichloroethene	mg/kg	ND	0.050	01/04/14 12:05	
Trichlorofluoromethane	mg/kg	ND	0.20	01/04/14 12:05	
Vinyl chloride	mg/kg	ND	0.020	01/04/14 12:05	
Xylene (Total)	mg/kg	ND	0.15	01/04/14 12:05	
1,2-Dichloroethane-d4 (S)	%.	95	74-125	01/04/14 12:05	
4-Bromofluorobenzene (S)	%.	100	75-125	01/04/14 12:05	
Toluene-d8 (S)	%.	100	75-125	01/04/14 12:05	

LABORATORY CONTROL SAMPLE: 1603833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	1	0.98	98	68-125	
1,1,1-Trichloroethane	mg/kg	1	0.87	87	62-125	
1,1,2,2-Tetrachloroethane	mg/kg	1	0.90	90	61-127	
1,1,2-Trichloroethane	mg/kg	1	0.95	95	70-125	
1,1,2-Trichlorotrifluoroethane	mg/kg	1	0.88	88	56-149	
1,1-Dichloroethane	mg/kg	1	0.76	76	60-127	
1,1-Dichloroethene	mg/kg	1	0.90	90	63-125	
1,1-Dichloropropene	mg/kg	1	0.90	90	67-125	
1,2,3-Trichlorobenzene	mg/kg	1	0.93	93	63-132	
1,2,3-Trichloropropane	mg/kg	1	0.95	95	67-125	
1,2,4-Trichlorobenzene	mg/kg	1	0.92	92	64-132	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

LABORATORY CONTROL SAMPLE: 1603833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	1	0.97	97	64-125	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.2	88	56-132	
1,2-Dibromoethane (EDB)	mg/kg	1	0.96	96	72-125	
1,2-Dichlorobenzene	mg/kg	1	0.98	98	68-125	
1,2-Dichloroethane	mg/kg	1	0.81	81	69-125	
1,2-Dichloropropane	mg/kg	1	0.88	88	73-125	
1,3,5-Trimethylbenzene	mg/kg	1	0.98	98	64-125	
1,3-Dichlorobenzene	mg/kg	1	1.0	101	67-125	
1,3-Dichloropropane	mg/kg	1	0.90	90	71-125	
1,4-Dichlorobenzene	mg/kg	1	0.95	95	69-125	
2,2-Dichloropropane	mg/kg	1	0.89	89	53-131	
2-Butanone (MEK)	mg/kg	5	3.3	66	52-131	
2-Chlorotoluene	mg/kg	1	0.97	97	66-125	
4-Chlorotoluene	mg/kg	1	0.95	95	52-131	
4-Methyl-2-pentanone (MIBK)	mg/kg	5	4.2	85	64-125	
Acetone	mg/kg	5	4.4	88	42-150	
Allyl chloride	mg/kg	1	0.86	86	58-128	
Benzene	mg/kg	1	0.81	81	71-125	
Bromobenzene	mg/kg	1	1.0	100	69-125	
Bromochloromethane	mg/kg	1	0.84	84	75-125	
Bromodichloromethane	mg/kg	1	0.87	87	69-125	
Bromoform	mg/kg	1	0.98	98	62-125	
Bromomethane	mg/kg	1	0.75	75	62-125	
Carbon tetrachloride	mg/kg	1	0.96	96	66-125	
Chlorobenzene	mg/kg	1	0.91	91	75-125	
Chloroethane	mg/kg	1	0.85	85	61-125	
Chloroform	mg/kg	1	0.86	86	72-125	
Chloromethane	mg/kg	1	0.81	81	59-125	
cis-1,2-Dichloroethene	mg/kg	1	0.86	86	74-125	
cis-1,3-Dichloropropene	mg/kg	1	0.91	91	68-125	
Dibromochloromethane	mg/kg	1	1.0	100	65-125	
Dibromomethane	mg/kg	1	0.99	99	72-125	
Dichlorodifluoromethane	mg/kg	1	0.91	91	39-125	
Dichlorofluoromethane	mg/kg	1	1.3	129	64-127 CH,LO	
Diethyl ether (Ethyl ether)	mg/kg	1	0.71	71	66-125	
Ethylbenzene	mg/kg	1	0.92	92	69-125	
Hexachloro-1,3-butadiene	mg/kg	1	1.1	109	53-150	
Isopropylbenzene (Cumene)	mg/kg	1	0.95	95	70-125	
Methyl-tert-butyl ether	mg/kg	1	0.80	80	69-125	
Methylene Chloride	mg/kg	1	0.81	81	71-125	
n-Butylbenzene	mg/kg	1	0.99	99	59-133	
n-Propylbenzene	mg/kg	1	0.96	96	64-125	
Naphthalene	mg/kg	1	0.94	94	61-131	
p-Isopropyltoluene	mg/kg	1	0.94	94	63-127	
sec-Butylbenzene	mg/kg	1	0.97	97	64-125	
Styrene	mg/kg	1	0.96	96	74-125	
tert-Butylbenzene	mg/kg	1	0.97	97	66-125	
Tetrachloroethene	mg/kg	1	1.0	103	68-125	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

LABORATORY CONTROL SAMPLE: 1603833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrahydrofuran	mg/kg	10	9.3	93	68-125	
Toluene	mg/kg	1	0.90	90	70-125	
trans-1,2-Dichloroethene	mg/kg	1	0.88	88	68-125	
trans-1,3-Dichloropropene	mg/kg	1	0.96	96	70-125	
Trichloroethene	mg/kg	1	0.94	94	71-125	
Trichlorofluoromethane	mg/kg	1	0.83	83	62-132	
Vinyl chloride	mg/kg	1	0.89	89	55-125	
Xylene (Total)	mg/kg	3	2.8	94	74-125	
1,2-Dichloroethane-d4 (S)	%.			93	74-125	
4-Bromofluorobenzene (S)	%.			103	75-125	
Toluene-d8 (S)	%.			102	75-125	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 1603834 1603835

Parameter	Units	10253812007		MS Spike		MSD Spike		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	Result						
1,1,1,2-Tetrachloroethane	mg/kg	ND	1.1	1.1	1.3	1.2	118	115	63-140	2	30		
1,1,1-Trichloroethane	mg/kg	ND	1.1	1.1	1.1	1.1	101	102	54-149	2	30		
1,1,2,2-Tetrachloroethane	mg/kg	ND	1.1	1.1	1.3	1.2	118	116	46-150	.2	30		
1,1,2-Trichloroethane	mg/kg	ND	1.1	1.1	1.2	1.2	115	111	62-141	2	30		
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	1.1	1.1	1.1	1.1	101	100	65-150	.2	30		
1,1-Dichloroethane	mg/kg	ND	1.1	1.1	0.97	0.98	91	91	57-145	1	30		
1,1-Dichloroethene	mg/kg	ND	1.1	1.1	1.1	1.1	104	105	58-137	2	30		
1,1-Dichloropropene	mg/kg	ND	1.1	1.1	1.1	1.1	103	103	61-141	.6	30		
1,2,3-Trichlorobenzene	mg/kg	ND	1.1	1.1	1.2	1.3	116	120	62-147	5	30		
1,2,3-Trichloropropane	mg/kg	ND	1.1	1.1	1.3	1.3	123	121	65-141	.3	30		
1,2,4-Trichlorobenzene	mg/kg	ND	1.1	1.1	1.2	1.2	113	116	64-147	4	30		
1,2,4-Trimethylbenzene	mg/kg	ND	1.1	1.1	1.2	1.2	114	113	59-144	.7	30		
1,2-Dibromo-3-chloropropane	mg/kg	ND	2.7	2.7	3.2	3.3	121	124	56-147	4	30		
1,2-Dibromoethane (EDB)	mg/kg	ND	1.1	1.1	1.2	1.2	117	115	66-135	.2	30		
1,2-Dichlorobenzene	mg/kg	ND	1.1	1.1	1.2	1.2	115	115	63-143	.8	30		
1,2-Dichloroethane	mg/kg	ND	1.1	1.1	1.0	1.1	97	98	57-145	3	30		
1,2-Dichloropropane	mg/kg	ND	1.1	1.1	1.1	1.1	107	104	62-139	2	30		
1,3,5-Trimethylbenzene	mg/kg	ND	1.1	1.1	1.2	1.2	115	113	60-144	.1	30		
1,3-Dichlorobenzene	mg/kg	ND	1.1	1.1	1.2	1.2	115	115	61-146	2	30		
1,3-Dichloropropane	mg/kg	ND	1.1	1.1	1.2	1.2	110	108	63-138	.5	30		
1,4-Dichlorobenzene	mg/kg	ND	1.1	1.1	1.2	1.2	109	111	60-145	4	30		
2,2-Dichloropropane	mg/kg	ND	1.1	1.1	1.1	1.1	102	101	54-143	.2	30		
2-Butanone (MEK)	mg/kg	ND	5.4	5.4	5.3	5.3	98	96	45-150	.1	30		
2-Chlorotoluene	mg/kg	ND	1.1	1.1	1.2	1.2	112	113	62-140	2	30		
4-Chlorotoluene	mg/kg	ND	1.1	1.1	1.2	1.2	111	113	60-143	3	30		
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	5.4	5.4	6.4	6.3	120	117	58-146	1	30		
Acetone	mg/kg	ND	5.4	5.4	5.4	5.4	101	99	30-150	.3	30		
Allyl chloride	mg/kg	ND	1.1	1.1	1.0	1.1	99	98	55-142	1	30		
Benzene	mg/kg	ND	1.1	1.1	1.0	1.0	95	95	61-134	2	30		
Bromobenzene	mg/kg	ND	1.1	1.1	1.2	1.2	115	115	64-143	1	30		
Bromochloromethane	mg/kg	ND	1.1	1.1	1.1	1.1	100	103	62-141	4	30		

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Parameter	Units	10253812007		MS Spike		MSD Spike		MS Result		MSD Result		MS % Rec		MSD % Rec		% Rec		Max	
				Conc.		Conc.		Result		MSD		MS		MSD		RPD	RPD	Qual	
												% Rec							
Bromodichloromethane	mg/kg	ND	1.1	1.1		1.1		1.1		107		104	57-146		1	30			
Bromoform	mg/kg	ND	1.1	1.1		1.3		1.3		122		120	60-136		.5	30			
Bromomethane	mg/kg	ND	1.1	1.1		1.0		1.1		94		104	54-141		12	30			
Carbon tetrachloride	mg/kg	ND	1.1	1.1		1.2		1.2		112		112	50-150		1	30			
Chlorobenzene	mg/kg	ND	1.1	1.1		1.2		1.1		110		106	67-135		2	30			
Chloroethane	mg/kg	ND	1.1	1.1		1.0		0.99		97		92	46-150		4	30			
Chloroform	mg/kg	ND	1.1	1.1		1.1		1.1		100		101	60-141		3	30			
Chloromethane	mg/kg	ND	1.1	1.1		1.0		1.0		95		96	46-133		2	30			
cis-1,2-Dichloroethene	mg/kg	ND	1.1	1.1		1.1		1.1		102		103	64-138		2	30			
cis-1,3-Dichloropropene	mg/kg	ND	1.1	1.1		1.2		1.2		111		108	64-138		1	30			
Dibromochloromethane	mg/kg	ND	1.1	1.1		1.3		1.3		120		119	56-145		.04	30			
Dibromomethane	mg/kg	ND	1.1	1.1		1.3		1.3		122		117	62-138		2	30			
Dichlorodifluoromethane	mg/kg	ND	1.1	1.1		1.1		1.2		105		107	30-136		3	30			
Dichlorofluoromethane	mg/kg	ND	1.1	1.1		.34J		.25J		32		24	47-150		30	CH,M0			
Diethyl ether (Ethyl ether)	mg/kg	ND	1.1	1.1		0.89		0.90		84		84	59-137		1	30			
Ethylbenzene	mg/kg	ND	1.1	1.1		1.2		1.2		111		108	63-135		1	30			
Hexachloro-1,3-butadiene	mg/kg	ND	1.1	1.1		1.5		1.5		144		143	65-150		.3	30			
Isopropylbenzene (Cumene)	mg/kg	ND	1.1	1.1		1.2		1.2		113		111	65-137		.9	30			
Methyl-tert-butyl ether	mg/kg	ND	1.1	1.1		1.0		1.1		97		100	56-143		4	30			
Methylene Chloride	mg/kg	ND	1.1	1.1		1.0		1.1		97		100	62-133		4	30			
n-Butylbenzene	mg/kg	ND	1.1	1.1		1.3		1.3		118		118	58-148		1	30			
n-Propylbenzene	mg/kg	ND	1.1	1.1		1.2		1.2		113		112	60-142		.4	30			
Naphthalene	mg/kg	ND	1.1	1.1		1.3		1.3		118		122	61-146		5	30			
p-Isopropyltoluene	mg/kg	ND	1.1	1.1		1.2		1.2		112		113	61-145		2	30			
sec-Butylbenzene	mg/kg	ND	1.1	1.1		1.2		1.2		115		115	57-147		1	30			
Styrene	mg/kg	ND	1.1	1.1		1.2		1.2		115		113	67-137		.2	30			
tert-Butylbenzene	mg/kg	ND	1.1	1.1		1.2		1.2		114		115	57-149		2	30			
Tetrachloroethene	mg/kg	ND	1.1	1.1		1.3		1.3		121		118	66-138		.5	30			
Tetrahydrofuran	mg/kg	ND	10.6	10.7		10.9		11.2		103		104	53-145		3	30			
Toluene	mg/kg	ND	1.1	1.1		1.2		1.1		107		105	67-132		.5	30			
trans-1,2-Dichloroethene	mg/kg	ND	1.1	1.1		1.1		1.1		103		103	61-136		2	30			
trans-1,3-Dichloropropene	mg/kg	ND	1.1	1.1		1.2		1.2		116		113	60-140		2	30			
Trichloroethene	mg/kg	ND	1.1	1.1		1.2		1.2		115		109	58-150		4	30			
Trichlorofluoromethane	mg/kg	ND	1.1	1.1		1.1		1.1		105		104	53-150		.8	30			
Vinyl chloride	mg/kg	ND	1.1	1.1		1.1		1.1		106		106	45-139		1	30			
Xylene (Total)	mg/kg	ND	3.2	3.2		3.6		3.6		112		111	66-136		.4	30			
1,2-Dichloroethane-d4 (S)	%.									90		93	74-125						
4-Bromofluorobenzene (S)	%.									103		102	75-125						
Toluene-d8 (S)	%.									102		101	75-125						

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

QC Batch:	MSV/26085	Analysis Method:	EPA 8260
QC Batch Method:	EPA 5035/5030B	Analysis Description:	8260 MSV 5030 Med Level
Associated Lab Samples:	10253812013, 10253812014, 10253812015		

METHOD BLANK: 1605176 Matrix: Solid

Associated Lab Samples: 10253812013, 10253812014, 10253812015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.050	01/07/14 17:34	
1,1,1-Trichloroethane	mg/kg	ND	0.050	01/07/14 17:34	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.050	01/07/14 17:34	
1,1,2-Trichloroethane	mg/kg	ND	0.050	01/07/14 17:34	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.050	01/07/14 17:34	
1,1-Dichloroethane	mg/kg	ND	0.050	01/07/14 17:34	
1,1-Dichloroethene	mg/kg	ND	0.050	01/07/14 17:34	
1,1-Dichloropropene	mg/kg	ND	0.050	01/07/14 17:34	
1,2,3-Trichlorobenzene	mg/kg	ND	0.050	01/07/14 17:34	
1,2,3-Trichloropropane	mg/kg	ND	0.20	01/07/14 17:34	
1,2,4-Trichlorobenzene	mg/kg	ND	0.050	01/07/14 17:34	
1,2,4-Trimethylbenzene	mg/kg	ND	0.050	01/07/14 17:34	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.50	01/07/14 17:34	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.050	01/07/14 17:34	
1,2-Dichlorobenzene	mg/kg	ND	0.050	01/07/14 17:34	
1,2-Dichloroethane	mg/kg	ND	0.050	01/07/14 17:34	
1,2-Dichloropropane	mg/kg	ND	0.050	01/07/14 17:34	
1,3,5-Trimethylbenzene	mg/kg	ND	0.050	01/07/14 17:34	
1,3-Dichlorobenzene	mg/kg	ND	0.050	01/07/14 17:34	
1,3-Dichloropropane	mg/kg	ND	0.050	01/07/14 17:34	
1,4-Dichlorobenzene	mg/kg	ND	0.050	01/07/14 17:34	
2,2-Dichloropropane	mg/kg	ND	0.20	01/07/14 17:34	
2-Butanone (MEK)	mg/kg	ND	0.25	01/07/14 17:34	
2-Chlorotoluene	mg/kg	ND	0.050	01/07/14 17:34	
4-Chlorotoluene	mg/kg	ND	0.050	01/07/14 17:34	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.25	01/07/14 17:34	
Acetone	mg/kg	ND	1.0	01/07/14 17:34	
Allyl chloride	mg/kg	ND	0.20	01/07/14 17:34	
Benzene	mg/kg	ND	0.020	01/07/14 17:34	
Bromobenzene	mg/kg	ND	0.050	01/07/14 17:34	
Bromochloromethane	mg/kg	ND	0.050	01/07/14 17:34	
Bromodichloromethane	mg/kg	ND	0.050	01/07/14 17:34	
Bromoform	mg/kg	ND	0.20	01/07/14 17:34	
Bromomethane	mg/kg	ND	0.50	01/07/14 17:34	
Carbon tetrachloride	mg/kg	ND	0.050	01/07/14 17:34	
Chlorobenzene	mg/kg	ND	0.050	01/07/14 17:34	
Chloroethane	mg/kg	ND	0.50	01/07/14 17:34	
Chloroform	mg/kg	ND	0.050	01/07/14 17:34	
Chloromethane	mg/kg	ND	0.20	01/07/14 17:34	
cis-1,2-Dichloroethene	mg/kg	ND	0.050	01/07/14 17:34	
cis-1,3-Dichloropropene	mg/kg	ND	0.050	01/07/14 17:34	
Dibromochloromethane	mg/kg	ND	0.050	01/07/14 17:34	
Dibromomethane	mg/kg	ND	0.050	01/07/14 17:34	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

METHOD BLANK: 1605176

Matrix: Solid

Associated Lab Samples: 10253812013, 10253812014, 10253812015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	mg/kg	ND	0.050	01/07/14 17:34	
Dichlorofluoromethane	mg/kg	ND	0.50	01/07/14 17:34	
Diethyl ether (Ethyl ether)	mg/kg	ND	0.20	01/07/14 17:34	
Ethylbenzene	mg/kg	ND	0.050	01/07/14 17:34	
Hexachloro-1,3-butadiene	mg/kg	ND	0.25	01/07/14 17:34	
Isopropylbenzene (Cumene)	mg/kg	ND	0.050	01/07/14 17:34	
Methyl-tert-butyl ether	mg/kg	ND	0.050	01/07/14 17:34	
Methylene Chloride	mg/kg	ND	0.20	01/07/14 17:34	
n-Butylbenzene	mg/kg	ND	0.050	01/07/14 17:34	
n-Propylbenzene	mg/kg	ND	0.050	01/07/14 17:34	
Naphthalene	mg/kg	ND	0.20	01/07/14 17:34	
p-Isopropyltoluene	mg/kg	ND	0.050	01/07/14 17:34	
sec-Butylbenzene	mg/kg	ND	0.050	01/07/14 17:34	
Styrene	mg/kg	ND	0.050	01/07/14 17:34	
tert-Butylbenzene	mg/kg	ND	0.050	01/07/14 17:34	
Tetrachloroethene	mg/kg	ND	0.050	01/07/14 17:34	
Tetrahydrofuran	mg/kg	ND	2.0	01/07/14 17:34	
Toluene	mg/kg	ND	0.050	01/07/14 17:34	
trans-1,2-Dichloroethene	mg/kg	ND	0.050	01/07/14 17:34	
trans-1,3-Dichloropropene	mg/kg	ND	0.050	01/07/14 17:34	
Trichloroethene	mg/kg	ND	0.050	01/07/14 17:34	
Trichlorofluoromethane	mg/kg	ND	0.20	01/07/14 17:34	
Vinyl chloride	mg/kg	ND	0.020	01/07/14 17:34	
Xylene (Total)	mg/kg	ND	0.15	01/07/14 17:34	
1,2-Dichloroethane-d4 (S)	%.	94	74-125	01/07/14 17:34	
4-Bromofluorobenzene (S)	%.	100	75-125	01/07/14 17:34	
Toluene-d8 (S)	%.	100	75-125	01/07/14 17:34	

LABORATORY CONTROL SAMPLE: 1605177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	1	0.93	93	68-125	
1,1,1-Trichloroethane	mg/kg	1	0.84	84	62-125	
1,1,2,2-Tetrachloroethane	mg/kg	1	0.78	78	61-127	
1,1,2-Trichloroethane	mg/kg	1	0.89	89	70-125	
1,1,2-Trichlorotrifluoroethane	mg/kg	1	0.74	74	56-149	
1,1-Dichloroethane	mg/kg	1	0.80	80	60-127	
1,1-Dichloroethene	mg/kg	1	0.82	82	63-125	
1,1-Dichloropropene	mg/kg	1	0.81	81	67-125	
1,2,3-Trichlorobenzene	mg/kg	1	0.78	78	63-132	
1,2,3-Trichloropropane	mg/kg	1	0.86	86	67-125	
1,2,4-Trichlorobenzene	mg/kg	1	0.82	82	64-132	
1,2,4-Trimethylbenzene	mg/kg	1	0.89	89	64-125	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	1.8	73	56-132	
1,2-Dibromoethane (EDB)	mg/kg	1	0.88	88	72-125	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

**LABORATORY CONTROL SAMPLE: 1605177**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	mg/kg	1	0.89	89	68-125	
1,2-Dichloroethane	mg/kg	1	0.82	82	69-125	
1,2-Dichloropropane	mg/kg	1	0.83	83	73-125	
1,3,5-Trimethylbenzene	mg/kg	1	0.89	89	64-125	
1,3-Dichlorobenzene	mg/kg	1	0.90	90	67-125	
1,3-Dichloropropane	mg/kg	1	0.86	86	71-125	
1,4-Dichlorobenzene	mg/kg	1	0.89	89	69-125	
2,2-Dichloropropane	mg/kg	1	0.85	85	53-131	
2-Butanone (MEK)	mg/kg	5	2.9	57	52-131	
2-Chlorotoluene	mg/kg	1	0.87	87	66-125	
4-Chlorotoluene	mg/kg	1	0.88	88	52-131	
4-Methyl-2-pentanone (MIBK)	mg/kg	5	3.6	71	64-125	
Acetone	mg/kg	5	4.6	93	42-150	
Allyl chloride	mg/kg	1	0.75	75	58-128	
Benzene	mg/kg	1	0.81	81	71-125	
Bromobenzene	mg/kg	1	0.93	93	69-125	
Bromo(chloromethane	mg/kg	1	0.85	85	75-125	
Bromodichloromethane	mg/kg	1	0.85	85	69-125	
Bromoform	mg/kg	1	0.88	88	62-125	
Bromomethane	mg/kg	1	0.78	78	62-125	
Carbon tetrachloride	mg/kg	1	0.82	82	66-125	
Chlorobenzene	mg/kg	1	0.88	88	75-125	
Chloroethane	mg/kg	1	0.83	83	61-125	
Chloroform	mg/kg	1	0.85	85	72-125	
Chloromethane	mg/kg	1	0.69	69	59-125	
cis-1,2-Dichloroethene	mg/kg	1	0.86	86	74-125	
cis-1,3-Dichloropropene	mg/kg	1	0.87	87	68-125	
Dibromochloromethane	mg/kg	1	0.90	90	65-125	
Dibromomethane	mg/kg	1	0.94	94	72-125	
Dichlorodifluoromethane	mg/kg	1	0.57	57	39-125	
Dichlorofluoromethane	mg/kg	1	1.2	119	64-127 SS	
Diethyl ether (Ethyl ether)	mg/kg	1	0.81	81	66-125	
Ethylbenzene	mg/kg	1	0.85	85	69-125	
Hexachloro-1,3-butadiene	mg/kg	1	0.86	86	53-150	
Isopropylbenzene (Cumene)	mg/kg	1	0.86	86	70-125	
Methyl-tert-butyl ether	mg/kg	1	0.78	78	69-125	
Methylene Chloride	mg/kg	1	0.82	82	71-125	
n-Butylbenzene	mg/kg	1	0.86	86	59-133	
n-Propylbenzene	mg/kg	1	0.87	87	64-125	
Naphthalene	mg/kg	1	0.74	74	61-131	
p-Isopropyltoluene	mg/kg	1	0.86	86	63-127	
sec-Butylbenzene	mg/kg	1	0.85	85	64-125	
Styrene	mg/kg	1	0.90	90	74-125	
tert-Butylbenzene	mg/kg	1	0.88	88	66-125	
Tetrachloroethene	mg/kg	1	0.93	93	68-125	
Tetrahydrofuran	mg/kg	10	10.7	107	68-125	
Toluene	mg/kg	1	0.86	86	70-125	
trans-1,2-Dichloroethene	mg/kg	1	0.85	85	68-125	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

LABORATORY CONTROL SAMPLE: 1605177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	mg/kg	1	0.89	89	70-125	
Trichloroethene	mg/kg	1	0.91	91	71-125	
Trichlorofluoromethane	mg/kg	1	0.82	82	62-132	
Vinyl chloride	mg/kg	1	0.74	74	55-125	
Xylene (Total)	mg/kg	3	2.6	87	74-125	
1,2-Dichloroethane-d4 (S)	%.			89	74-125	
4-Bromofluorobenzene (S)	%.			101	75-125	
Toluene-d8 (S)	%.			100	75-125	

MATRIX SPIKE SAMPLE: 1605178

Parameter	Units	10253812013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	1.1	1.1	98	63-140	
1,1,1-Trichloroethane	mg/kg	ND	1.1	0.98	88	54-149	
1,1,2,2-Tetrachloroethane	mg/kg	ND	1.1	1.0	97	46-150	
1,1,2-Trichloroethane	mg/kg	ND	1.1	1.0	96	62-141	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	1.1	0.99	92	65-150	
1,1-Dichloroethane	mg/kg	ND	1.1	0.93	87	57-145	
1,1-Dichloroethene	mg/kg	ND	1.1	0.94	87	58-137	
1,1-Dichloropropene	mg/kg	ND	1.1	0.96	89	61-141	
1,2,3-Trichlorobenzene	mg/kg	ND	1.1	1.1	98	62-147	
1,2,3-Trichloropropane	mg/kg	ND	1.1	1.1	102	65-141	
1,2,4-Trichlorobenzene	mg/kg	ND	1.1	1.1	99	64-147	
1,2,4-Trimethylbenzene	mg/kg	ND	1.1	1.0	94	59-144	
1,2-Dibromo-3-chloropropane	mg/kg	ND	2.7	2.7	102	56-147	
1,2-Dibromoethane (EDB)	mg/kg	ND	1.1	1.0	97	66-135	
1,2-Dichlorobenzene	mg/kg	ND	1.1	1.1	98	63-143	
1,2-Dichloroethane	mg/kg	ND	1.1	0.96	89	57-145	
1,2-Dichloropropane	mg/kg	ND	1.1	0.98	91	62-139	
1,3,5-Trimethylbenzene	mg/kg	ND	1.1	1.0	95	60-144	
1,3-Dichlorobenzene	mg/kg	ND	1.1	1.0	97	61-146	
1,3-Dichloropropene	mg/kg	ND	1.1	1.0	93	63-138	
1,4-Dichlorobenzene	mg/kg	ND	1.1	1.0	95	60-145	
2,2-Dichloropropane	mg/kg	ND	1.1	0.95	88	54-143	
2-Butanone (MEK)	mg/kg	ND	5.3	4.6	86	45-150	
2-Chlorotoluene	mg/kg	ND	1.1	1.0	93	62-140	
4-Chlorotoluene	mg/kg	ND	1.1	1.0	95	60-143	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	5.3	5.2	97	58-146	
Acetone	mg/kg	ND	5.3	5.3	95	30-150	
Allyl chloride	mg/kg	ND	1.1	0.85	79	55-142	
Benzene	mg/kg	ND	1.1	0.94	87	61-134	
Bromobenzene	mg/kg	ND	1.1	1.1	98	64-143	
Bromochloromethane	mg/kg	ND	1.1	0.98	91	62-141	
Bromodichloromethane	mg/kg	ND	1.1	1.0	93	57-146	
Bromoform	mg/kg	ND	1.1	1.1	102	60-136	
Bromomethane	mg/kg	ND	1.1	0.87	81	54-141	
Carbon tetrachloride	mg/kg	ND	1.1	0.98	91	50-150	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

MATRIX SPIKE SAMPLE:	1605178						
Parameter	Units	10253812013	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	mg/kg	ND	1.1	1.0	95	67-135	
Chloroethane	mg/kg	ND	1.1	0.85	79	46-150	
Chloroform	mg/kg	ND	1.1	0.99	92	60-141	
Chloromethane	mg/kg	ND	1.1	0.79	73	46-133	
cis-1,2-Dichloroethene	mg/kg	ND	1.1	0.97	90	64-138	
cis-1,3-Dichloropropene	mg/kg	ND	1.1	0.99	91	64-138	
Dibromochloromethane	mg/kg	ND	1.1	1.0	97	56-145	
Dibromomethane	mg/kg	ND	1.1	1.1	103	62-138	
Dichlorodifluoromethane	mg/kg	ND	1.1	0.76	71	30-136	
Dichlorofluoromethane	mg/kg	ND	1.1	0.84	78	47-150 SS	
Diethyl ether (Ethyl ether)	mg/kg	ND	1.1	0.93	87	59-137	
Ethylbenzene	mg/kg	ND	1.1	1.0	93	63-135	
Hexachloro-1,3-butadiene	mg/kg	ND	1.1	1.3	118	65-150	
Isopropylbenzene (Cumene)	mg/kg	ND	1.1	1.0	95	65-137	
Methyl-tert-butyl ether	mg/kg	ND	1.1	0.95	88	56-143	
Methylene Chloride	mg/kg	ND	1.1	0.95	88	62-133	
n-Butylbenzene	mg/kg	ND	1.1	1.0	96	58-148	
n-Propylbenzene	mg/kg	ND	1.1	1.0	94	60-142	
Naphthalene	mg/kg	ND	1.1	1.1	100	61-146	
p-Isopropyltoluene	mg/kg	ND	1.1	1.0	96	61-145	
sec-Butylbenzene	mg/kg	ND	1.1	1.0	95	57-147	
Styrene	mg/kg	ND	1.1	1.1	97	67-137	
tert-Butylbenzene	mg/kg	ND	1.1	1.0	96	57-149	
Tetrachloroethene	mg/kg	ND	1.1	1.1	100	66-138	
Tetrahydrofuran	mg/kg	ND	10.8	10.9	102	53-145	
Toluene	mg/kg	ND	1.1	0.99	92	67-132	
trans-1,2-Dichloroethene	mg/kg	ND	1.1	0.98	91	61-136	
trans-1,3-Dichloropropene	mg/kg	ND	1.1	1.0	95	60-140	
Trichloroethene	mg/kg	ND	1.1	1.1	99	58-150	
Trichlorofluoromethane	mg/kg	ND	1.1	0.91	84	53-150	
Vinyl chloride	mg/kg	ND	1.1	0.87	81	45-139	
Xylene (Total)	mg/kg	ND	3.2	3.1	95	66-136	
1,2-Dichloroethane-d4 (S)	%.				91	74-125	
4-Bromofluorobenzene (S)	%.				98	75-125	
Toluene-d8 (S)	%.				98	75-125	

SAMPLE DUPLICATE: 1605179

Parameter	Units	10253812014	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,1-Trichloroethane	mg/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,2-Trichloroethane	mg/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	ND		30	
1,1-Dichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethene	mg/kg	ND	ND		30	
1,1-Dichloropropene	mg/kg	ND	ND		30	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

SAMPLE DUPLICATE: 1605179

Parameter	Units	10253812014 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,3-Trichloropropane	mg/kg	ND	ND		30	
1,2,4-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,4-Trimethylbenzene	mg/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	mg/kg	ND	ND		30	
1,2-Dichlorobenzene	mg/kg	ND	ND		30	
1,2-Dichloroethane	mg/kg	ND	ND		30	
1,2-Dichloropropane	mg/kg	ND	ND		30	
1,3,5-Trimethylbenzene	mg/kg	ND	ND		30	
1,3-Dichlorobenzene	mg/kg	ND	ND		30	
1,3-Dichloropropane	mg/kg	ND	ND		30	
1,4-Dichlorobenzene	mg/kg	ND	ND		30	
2,2-Dichloropropane	mg/kg	ND	ND		30	
2-Butanone (MEK)	mg/kg	ND	ND		30	
2-Chlorotoluene	mg/kg	ND	ND		30	
4-Chlorotoluene	mg/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	ND		30	
Acetone	mg/kg	ND	ND		30	
Allyl chloride	mg/kg	ND	ND		30	
Benzene	mg/kg	ND	ND		30	
Bromobenzene	mg/kg	ND	ND		30	
Bromochloromethane	mg/kg	ND	ND		30	
Bromodichloromethane	mg/kg	ND	ND		30	
Bromoform	mg/kg	ND	ND		30	
Bromomethane	mg/kg	ND	ND		30	
Carbon tetrachloride	mg/kg	ND	ND		30	
Chlorobenzene	mg/kg	ND	ND		30	
Chloroethane	mg/kg	ND	ND		30	
Chloroform	mg/kg	ND	ND		30	
Chloromethane	mg/kg	ND	ND		30	
cis-1,2-Dichloroethene	mg/kg	ND	ND		30	
cis-1,3-Dichloropropene	mg/kg	ND	ND		30	
Dibromochloromethane	mg/kg	ND	ND		30	
Dibromomethane	mg/kg	ND	ND		30	
Dichlorodifluoromethane	mg/kg	ND	ND		30	
Dichlorofluoromethane	mg/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	mg/kg	ND	ND		30	
Ethylbenzene	mg/kg	ND	ND		30	
Hexachloro-1,3-butadiene	mg/kg	ND	ND		30	
Isopropylbenzene (Cumene)	mg/kg	ND	ND		30	
Methyl-tert-butyl ether	mg/kg	ND	ND		30	
Methylene Chloride	mg/kg	ND	ND		30	
n-Butylbenzene	mg/kg	ND	ND		30	
n-Propylbenzene	mg/kg	ND	ND		30	
Naphthalene	mg/kg	ND	ND		30	
p-Isopropyltoluene	mg/kg	ND	ND		30	
sec-Butylbenzene	mg/kg	ND	ND		30	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

SAMPLE DUPLICATE: 1605179

Parameter	Units	10253812014 Result	Dup Result	RPD	Max RPD	Qualifiers
Styrene	mg/kg	ND	ND		30	
tert-Butylbenzene	mg/kg	ND	ND		30	
Tetrachloroethene	mg/kg	ND	ND		30	
Tetrahydrofuran	mg/kg	ND	ND		30	
Toluene	mg/kg	ND	ND		30	
trans-1,2-Dichloroethene	mg/kg	ND	ND		30	
trans-1,3-Dichloropropene	mg/kg	ND	ND		30	
Trichloroethene	mg/kg	ND	ND		30	
Trichlorofluoromethane	mg/kg	ND	ND		30	
Vinyl chloride	mg/kg	ND	ND		30	
Xylene (Total)	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	94	93	6		
4-Bromofluorobenzene (S)	%.	101	99	6		
Toluene-d8 (S)	%.	99	99	5		

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

QC Batch:	OEXT/24066	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3550	Analysis Description:	8082 GCS PCB
Associated Lab Samples:	10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007, 10253812008, 10253812009, 10253812010, 10253812011, 10253812012, 10253812013, 10253812014		

METHOD BLANK: 1604947                          Matrix: Solid

Associated Lab Samples: 10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007,  
10253812008, 10253812009, 10253812010, 10253812011, 10253812012, 10253812013, 10253812014

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
PCB-1016 (Aroclor 1016)	mg/kg	ND	0.033	01/07/14 17:29	
PCB-1221 (Aroclor 1221)	mg/kg	ND	0.033	01/07/14 17:29	
PCB-1232 (Aroclor 1232)	mg/kg	ND	0.033	01/07/14 17:29	
PCB-1242 (Aroclor 1242)	mg/kg	ND	0.033	01/07/14 17:29	
PCB-1248 (Aroclor 1248)	mg/kg	ND	0.033	01/07/14 17:29	
PCB-1254 (Aroclor 1254)	mg/kg	ND	0.033	01/07/14 17:29	
PCB-1260 (Aroclor 1260)	mg/kg	ND	0.033	01/07/14 17:29	
PCB-1262 (Aroclor 1262)	mg/kg	ND	0.033	01/07/14 17:29	
PCB-1268 (Aroclor 1268)	mg/kg	ND	0.033	01/07/14 17:29	
Decachlorobiphenyl (S)	%.	87	55-130	01/07/14 17:29	
Tetrachloro-m-xylene (S)	%.	80	50-128	01/07/14 17:29	

LABORATORY CONTROL SAMPLE: 1604948

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
PCB-1016 (Aroclor 1016)	mg/kg	.67	0.52	78	62-125	
PCB-1260 (Aroclor 1260)	mg/kg	.67	0.56	83	61-125	
Decachlorobiphenyl (S)	%.			85	55-130	
Tetrachloro-m-xylene (S)	%.			80	50-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1604949                          1604950

Parameter	Units	MS		MSD		MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		10253812007	Result	Spike	Conc.	Result	Conc.	% Rec	% Rec				
PCB-1016 (Aroclor 1016)	mg/kg	ND	.72	.71	0.65	0.72		91	101	34-125	10	30	
PCB-1260 (Aroclor 1260)	mg/kg	ND	.72	.71	0.64	0.66		90	93	30-128	3	30	
Decachlorobiphenyl (S)	%.							0	0	55-130			S4
Tetrachloro-m-xylene (S)	%.							0	0	50-128			D3,S4

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

QC Batch: OEXT/24065 Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3550 Analysis Description: 8270 Solid PAH by SIM MSSV

Associated Lab Samples: 10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007,  
10253812008, 10253812009, 10253812010, 10253812011, 10253812012, 10253812013, 10253812014

METHOD BLANK: 1604926 Matrix: Solid

Associated Lab Samples: 10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007,  
10253812008, 10253812009, 10253812010, 10253812011, 10253812012, 10253812013, 10253812014

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Acenaphthene	mg/kg	ND	0.010	01/07/14 22:02	
Acenaphthylene	mg/kg	ND	0.010	01/07/14 22:02	
Anthracene	mg/kg	ND	0.010	01/07/14 22:02	
Benzo(a)anthracene	mg/kg	ND	0.010	01/07/14 22:02	
Benzo(a)pyrene	mg/kg	ND	0.010	01/07/14 22:02	
Benzo(b)fluoranthene	mg/kg	ND	0.010	01/07/14 22:02	
Benzo(g,h,i)perylene	mg/kg	ND	0.010	01/07/14 22:02	
Benzo(k)fluoranthene	mg/kg	ND	0.010	01/07/14 22:02	
Chrysene	mg/kg	ND	0.010	01/07/14 22:02	
Dibenz(a,h)anthracene	mg/kg	ND	0.010	01/07/14 22:02	
Fluoranthene	mg/kg	ND	0.010	01/07/14 22:02	
Fluorene	mg/kg	ND	0.010	01/07/14 22:02	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.010	01/07/14 22:02	
Naphthalene	mg/kg	ND	0.010	01/07/14 22:02	
Phenanthrene	mg/kg	ND	0.010	01/07/14 22:02	
Pyrene	mg/kg	ND	0.010	01/07/14 22:02	
2-Fluorobiphenyl (S)	%.	76	30-150	01/07/14 22:02	
Terphenyl-d14 (S)	%.	85	30-150	01/07/14 22:02	

LABORATORY CONTROL SAMPLE: 1604927

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Acenaphthene	mg/kg	.033	0.023	70	46-125	
Acenaphthylene	mg/kg	.033	0.024	73	45-125	
Anthracene	mg/kg	.033	0.025	74	56-125	
Benzo(a)anthracene	mg/kg	.033	0.031	93	64-125	
Benzo(a)pyrene	mg/kg	.033	0.028	85	66-125	
Benzo(b)fluoranthene	mg/kg	.033	0.029	86	65-125	
Benzo(g,h,i)perylene	mg/kg	.033	0.029	88	60-125	
Benzo(k)fluoranthene	mg/kg	.033	0.028	85	60-125	
Chrysene	mg/kg	.033	0.025	76	60-125	
Dibenz(a,h)anthracene	mg/kg	.033	0.031	93	59-125	
Fluoranthene	mg/kg	.033	0.029	86	70-125	
Fluorene	mg/kg	.033	0.026	77	55-125	
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.031	92	60-125	
Naphthalene	mg/kg	.033	0.023	68	43-125	
Phenanthrene	mg/kg	.033	0.025	75	60-125	
Pyrene	mg/kg	.033	0.028	83	67-125	
2-Fluorobiphenyl (S)	%.			76	30-150	
Terphenyl-d14 (S)	%.			87	30-150	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

Parameter	Units	10253812007		MS		MSD		1604928		1604929		Max Qual
		Result	Conc.	Spike	Spike	MS	MSD	MS	MSD	% Rec	% Rec	
				Conc.	Result	Result	% Rec	% Rec	% Rec	Limits	RPD	
Acenaphthene	mg/kg	ND	.035	.035	ND	ND	0	0	0	30-150	30	M1
Acenaphthylene	mg/kg	ND	.035	.035	ND	ND	0	0	0	30-150	30	M1
Anthracene	mg/kg	0.98	.035	.035	ND	ND	-2760	-2750	-2750	30-150	30	M1
Benzo(a)anthracene	mg/kg	1.9	.035	.035	0.70	0.72	-3500	-3410	-3410	30-150	4	30 M1
Benzo(a)pyrene	mg/kg	2.0	.035	.035	0.81	0.79	-3290	-3330	-3330	30-150	2	30 M1
Benzo(b)fluoranthene	mg/kg	2.1	.035	.035	0.99	0.97	-3130	-3170	-3170	30-150	2	30 M1
Benzo(g,h,i)perylene	mg/kg	1.3	.035	.035	0.59	0.58	-1990	-2020	-2020	30-150	2	30 M1
Benzo(k)fluoranthene	mg/kg	1.2	.035	.035	.35J	.36J	-2410	-2380	-2380	30-150	30	M1
Chrysene	mg/kg	2.0	.035	.035	0.74	0.77	-3380	-3290	-3290	30-150	4	30 M1
Dibenz(a,h)anthracene	mg/kg	ND	.035	.035	ND	ND	0	0	0	30-150	30	M1
Fluoranthene	mg/kg	4.9	.035	.035	1.7	1.8	-8850	-8650	-8650	30-150	3	30 M1
Fluorene	mg/kg	ND	.035	.035	ND	ND	-875	-872	-872	30-150	30	M1
Indeno(1,2,3-cd)pyrene	mg/kg	1.5	.035	.035	0.65	0.61	-2370	-2480	-2480	30-150	7	30 M1
Naphthalene	mg/kg	ND	.035	.035	ND	ND	0	0	0	30-150	30	M1
Phenanthrene	mg/kg	3.6	.035	.035	0.86	1.0	-7690	-7240	-7240	30-150	16	30 M1
Pyrene	mg/kg	3.8	.035	.035	1.3	1.4	-7030	-6770	-6770	30-150	6	30 M1
2-Fluorobiphenyl (S)	%.						0	0	0	30-150		P3,S0
Terphenyl-d14 (S)	%.						0	0	0	30-150		S0

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

QC Batch:	OEXT/24058	Analysis Method:	WI MOD DRO
QC Batch Method:	WI MOD DRO	Analysis Description:	WIDRO GCS
Associated Lab Samples: 10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007, 10253812008, 10253812009, 10253812010, 10253812011, 10253812012, 10253812013, 10253812014			

METHOD BLANK: 1604122 Matrix: Solid  
Associated Lab Samples: 10253812001, 10253812002, 10253812003, 10253812004, 10253812005, 10253812006, 10253812007,  
10253812008, 10253812009, 10253812010, 10253812011, 10253812012, 10253812013, 10253812014

Parameter	Units	Blank Result	Reporting		Qualifiers
			Limit	Analyzed	
Diesel Range Organics	mg/kg	ND	10.0	01/06/14 14:03	
n-Triacontane (S)	%	100	50-150	01/06/14 14:03	

LABORATORY CONTROL SAMPLE & LCSD:		1604124									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Diesel Range Organics	mg/kg	80	69.7	71.1	87	89	70-120	2	20		
n-Triacontane (S)	%				88	86	50-150				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			1604126									
Parameter	Units	10253812007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Range Organics	mg/kg	102	66.5	71.1	144	212	64	154	70-120	38	20	M1, R1, T6
n-Triacontane (S)	%						128	103	50-150			

## REPORT OF LABORATORY ANALYSIS

## QUALITY CONTROL DATA

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

QC Batch:	OEXT/24130	Analysis Method:	WI MOD DRO
QC Batch Method:	WI MOD DRO	Analysis Description:	WIDRO Solid GCV
Associated Lab Samples:	10253812001, 10253812004, 10253812009, 10253812013		

METHOD BLANK: 1608884 Matrix: Solid

Associated Lab Samples: 10253812001, 10253812004, 10253812009, 10253812013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	10.0	01/15/14 10:36	
n-Triacontane (S)	%.	77	63-125	01/15/14 10:36	

LABORATORY CONTROL SAMPLE & LCSD: 1608885 1608886

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	80	64.9	65.4	81	82	59-125	.8	20	
n-Triacontane (S)	%.				80	81	63-125			

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALIFIERS

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- P3 Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
- R1 RPD value was outside control limits.
- S0 Surrogate recovery outside laboratory control limits.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.
- SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.
- T6 High boiling point hydrocarbons are present in the sample.

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10253812001	WH-SB-GP-1 (2-4')	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812002	WH-SB-GP-2 (2-4')	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812003	WH-SB-GP-2 (6-8')	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812004	WH-SB-GP-3 (2-4')	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812005	WH-SB-GP-4 (6-8')	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812006	WH-SB-GP-5 (2-4')	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812007	WH-SB-GP-6 (2-4') MS/MSD	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812008	WH-SB-GP-7 (6-8')	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812009	WH-SB-GP-8 (2-4')	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812010	WH-SB-GP-9 (6-8')	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812011	WH-SB-GP-10 (2-4')	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812012	WH-SB-GP-11 (6-8')	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812013	WH-SB-GP-12 (2-4')	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812014	WH-SB-GP-12 (2-4')-FD	EPA 3550	OEXT/24066	EPA 8082	GCSV/12663
10253812001	WH-SB-GP-1 (2-4')	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812002	WH-SB-GP-2 (2-4')	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812003	WH-SB-GP-2 (6-8')	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812004	WH-SB-GP-3 (2-4')	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812005	WH-SB-GP-4 (6-8')	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812006	WH-SB-GP-5 (2-4')	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812007	WH-SB-GP-6 (2-4') MS/MSD	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812008	WH-SB-GP-7 (6-8')	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812009	WH-SB-GP-8 (2-4')	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812010	WH-SB-GP-9 (6-8')	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812011	WH-SB-GP-10 (2-4')	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812012	WH-SB-GP-11 (6-8')	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812013	WH-SB-GP-12 (2-4')	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812014	WH-SB-GP-12 (2-4')-FD	WI MOD DRO	OEXT/24058	WI MOD DRO	GCSV/12661
10253812001	WH-SB-GP-1 (2-4')	WI MOD DRO	OEXT/24130	WI MOD DRO	GCSV/12697
10253812004	WH-SB-GP-3 (2-4')	WI MOD DRO	OEXT/24130	WI MOD DRO	GCSV/12697
10253812009	WH-SB-GP-8 (2-4')	WI MOD DRO	OEXT/24130	WI MOD DRO	GCSV/12697
10253812013	WH-SB-GP-12 (2-4')	WI MOD DRO	OEXT/24130	WI MOD DRO	GCSV/12697
10253812001	WH-SB-GP-1 (2-4')	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812002	WH-SB-GP-2 (2-4')	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812003	WH-SB-GP-2 (6-8')	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812004	WH-SB-GP-3 (2-4')	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812005	WH-SB-GP-4 (6-8')	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812006	WH-SB-GP-5 (2-4')	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812007	WH-SB-GP-6 (2-4') MS/MSD	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812008	WH-SB-GP-7 (6-8')	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812009	WH-SB-GP-8 (2-4')	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812010	WH-SB-GP-9 (6-8')	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812011	WH-SB-GP-10 (2-4')	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812012	WH-SB-GP-11 (6-8')	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812013	WH-SB-GP-12 (2-4')	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812014	WH-SB-GP-12 (2-4')-FD	EPA 3050	MPRP/43964	EPA 6010	ICP/18526
10253812001	WH-SB-GP-1 (2-4')	EPA 7471	MERP/9889	EPA 7471	MERC/11377

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 22056 1522 Whitaker St. REV

Pace Project No.: 10253812

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10253812002	WH-SB-GP-2 (2-4')	EPA 7471	MERP/9889	EPA 7471	MERC/11377
10253812003	WH-SB-GP-2 (6-8')	EPA 7471	MERP/9889	EPA 7471	MERC/11377
10253812004	WH-SB-GP-3 (2-4')	EPA 7471	MERP/9889	EPA 7471	MERC/11377
10253812005	WH-SB-GP-4 (6-8')	EPA 7471	MERP/9889	EPA 7471	MERC/11377
10253812006	WH-SB-GP-5 (2-4')	EPA 7471	MERP/9889	EPA 7471	MERC/11377
10253812007	WH-SB-GP-6 (2-4') MS/MSD	EPA 7471	MERP/9889	EPA 7471	MERC/11377
10253812008	WH-SB-GP-7 (6-8')	EPA 7471	MERP/9889	EPA 7471	MERC/11377
10253812009	WH-SB-GP-8 (2-4')	EPA 7471	MERP/9889	EPA 7471	MERC/11377
10253812010	WH-SB-GP-9 (6-8')	EPA 7471	MERP/9889	EPA 7471	MERC/11377
10253812011	WH-SB-GP-10 (2-4')	EPA 7471	MERP/9889	EPA 7471	MERC/11377
10253812012	WH-SB-GP-11 (6-8')	EPA 7471	MERP/9889	EPA 7471	MERC/11377
10253812013	WH-SB-GP-12 (2-4')	EPA 7471	MERP/9889	EPA 7471	MERC/11377
10253812014	WH-SB-GP-12 (2-4')-FD	EPA 7471	MERP/9889	EPA 7471	MERC/11377
10253812001	WH-SB-GP-1 (2-4')	ASTM D2974	MPRP/43978		
10253812002	WH-SB-GP-2 (2-4')	ASTM D2974	MPRP/43978		
10253812003	WH-SB-GP-2 (6-8')	ASTM D2974	MPRP/43978		
10253812004	WH-SB-GP-3 (2-4')	ASTM D2974	MPRP/43978		
10253812005	WH-SB-GP-4 (6-8')	ASTM D2974	MPRP/43978		
10253812006	WH-SB-GP-5 (2-4')	ASTM D2974	MPRP/43978		
10253812007	WH-SB-GP-6 (2-4') MS/MSD	ASTM D2974	MPRP/43978		
10253812008	WH-SB-GP-7 (6-8')	ASTM D2974	MPRP/43978		
10253812009	WH-SB-GP-8 (2-4')	ASTM D2974	MPRP/43978		
10253812010	WH-SB-GP-9 (6-8')	ASTM D2974	MPRP/43978		
10253812011	WH-SB-GP-10 (2-4')	ASTM D2974	MPRP/43978		
10253812012	WH-SB-GP-11 (6-8')	ASTM D2974	MPRP/43978		
10253812013	WH-SB-GP-12 (2-4')	ASTM D2974	MPRP/43978		
10253812014	WH-SB-GP-12 (2-4')-FD	ASTM D2974	MPRP/43978		
10253812001	WH-SB-GP-1 (2-4')	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812002	WH-SB-GP-2 (2-4')	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812003	WH-SB-GP-2 (6-8')	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812004	WH-SB-GP-3 (2-4')	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812005	WH-SB-GP-4 (6-8')	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812006	WH-SB-GP-5 (2-4')	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812007	WH-SB-GP-6 (2-4') MS/MSD	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812008	WH-SB-GP-7 (6-8')	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812009	WH-SB-GP-8 (2-4')	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812010	WH-SB-GP-9 (6-8')	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812011	WH-SB-GP-10 (2-4')	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812012	WH-SB-GP-11 (6-8')	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812013	WH-SB-GP-12 (2-4')	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812014	WH-SB-GP-12 (2-4')-FD	EPA 3550	OEXT/24065	EPA 8270 by SIM	MSSV/10178
10253812001	WH-SB-GP-1 (2-4')	EPA 5035/5030B	MSV/26070	EPA 8260	MSV/26084
10253812002	WH-SB-GP-2 (2-4')	EPA 5035/5030B	MSV/26070	EPA 8260	MSV/26084
10253812003	WH-SB-GP-2 (6-8')	EPA 5035/5030B	MSV/26070	EPA 8260	MSV/26084
10253812004	WH-SB-GP-3 (2-4')	EPA 5035/5030B	MSV/26070	EPA 8260	MSV/26084
10253812005	WH-SB-GP-4 (6-8')	EPA 5035/5030B	MSV/26070	EPA 8260	MSV/26084
10253812006	WH-SB-GP-5 (2-4')	EPA 5035/5030B	MSV/26070	EPA 8260	MSV/26084

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 22056 1522 Whitaker St. REV  
Pace Project No.: 10253812

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10253812007	WH-SB-GP-6 (2-4') MS/MSD	EPA 5035/5030B	MSV/26070	EPA 8260	MSV/26084
10253812008	WH-SB-GP-7 (6-8')	EPA 5035/5030B	MSV/26070	EPA 8260	MSV/26084
10253812009	WH-SB-GP-8 (2-4')	EPA 5035/5030B	MSV/26070	EPA 8260	MSV/26084
10253812010	WH-SB-GP-9 (6-8')	EPA 5035/5030B	MSV/26070	EPA 8260	MSV/26084
10253812011	WH-SB-GP-10 (2-4')	EPA 5035/5030B	MSV/26070	EPA 8260	MSV/26084
10253812012	WH-SB-GP-11 (6-8')	EPA 5035/5030B	MSV/26070	EPA 8260	MSV/26084
10253812013	WH-SB-GP-12 (2-4')	EPA 5035/5030B	MSV/26085	EPA 8260	MSV/26088
10253812014	WH-SB-GP-12 (2-4')-FD	EPA 5035/5030B	MSV/26085	EPA 8260	MSV/26088
10253812015	WH-SB-TB	EPA 5035/5030B	MSV/26085	EPA 8260	MSV/26088

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10253812

## Section A

### Required Client Information:

Company:	Peer Engineering
Address:	7615 Golden Triangle Drive, Suite N Eden Prairie, MN 55344
Email To:	bschaepe@peerengineering.com
Phone:	(952) 831-3341   Fax: (952) 831-4552
Requested Due Date/TAT:	Standard

## Section B

### Required Project Information:

Report To:	Bruce Schaepe
Copy To:	Jeff Arndt
	jarndt@peerengineering.com
Purchase Order No.	
Project Name:	1522 Whitaker St.
Project Number	22056

## Section C

### Invoice Information:

Attention:	
Company Name:	Peer Engineering
Address:	
Pace Quote Reference:	
Pace Project Manager:	Diane Anderson
Pace Profile #:	

Page : 1 Of 2

Regulatory Agency

State / Location

Minnesota

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID  One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test Y/N	Residual Chlorine (Y/N)		
					START		END				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other			
					DATE	TIME	DATE	TIME												
1	WH-SB-GP-1 (2-4')		SL G				12/26/2013	1335	6	4						2		x x x x x x	10253812 001	
2	WH-SB-GP-2 (2-4')		SL G				12/26/2013	1205	6	4						2		x x x x x x	002	
3	WH-SB-GP-2 (6-8')		SL G				12/26/2013	1215	6	4						2		x x x x x x	003	
4	WH-SB-GP-3 (2-4')		SL G				12/26/2013	1250	6	4						2		x x x x x x	004	
5	WH-SB-GP-4 (6-8')		SL G				12/26/2013	1605	6	4						2		x x x x x x	005	
6	WH-SB-GP-5 (2-4')		SL G				12/27/2013	850	6	4						2		x x x x x x	006	
7	WH-SB-GP-6 (2-4')		SL G				12/27/2013	945	18	12						6		x x x x x x	007	
8	WH-SB-GP-7 (6-8')		SL G				12/26/2013	915	6	4						2		x x x x x x	008	
9	WH-SB-GP-8 (2-4')		SL G				12/26/2013	905	6	4						2		x x x x x x	009	
10	WH-SB-GP-9 (6-8')		SL G				12/26/2013	1040	6	4						2		x x x x x x	010	
11	WH-SB-GP-10 (2-4')		SL G				12/26/2013	1130	6	4						2		x x x x x x	011	
12	WH-SB-GP-11 (6-8')		SL G				12/26/2013	1410	6	4						2		x x x x x x	012	

### ADDITIONAL COMMENTS

### RELINQUISHED BY / AFFILIATION

### DATE

### TIME

### ACCEPTED BY / AFFILIATION

### DATE

### TIME

### SAMPLE CONDITIONS

Please perform MS/MSD on sample WH-SB-GP-6 (2-4')

Jeff Arndt / Peer

12/31/13 1500

AAT Pace

12/31/13 1547

7.2 Y N Y

### SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

Jeff Arndt

SIGNATURE of SAMPLER:

DATE Signed: 12/31/13

TEMP in C

Received on  
ice (Y/N)

Custody Sealed  
Cooler (Y/N)

Samples Intact  
(Y/N)

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10253812

## Section A

### Required Client Information:

Company: Peer Engineering

Address: 7615 Golden Triangle Drive, Suite N

Eden Prairie, MN 55344

Email To: bschaepe@peerengineering.com

Phone: (952) 831-3341 Fax: (952) 831-4552

Requested Due Date/TAT: Standard

## Section B

### Required Project Information:

Report To: Bruce Schaepe

Copy To: Jeff Arndt

jarndt@peerengineering.com

Purchase Order No.

Project Name: 1522 Whitaker St.

Project Number: 22056

## Section C

### Invoice Information:

Attention:

Company Name: Peer Engineering

Address:

Pace Quote Reference:

Pace Project Manager: Diane Anderson

Pace Profile #:

Page : 2 Of 2

Regulatory Agency

State / Location

Minnesota

ITEM#	SAMPLE ID  One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE  Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	SAMPLE TYPE  (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION  Unpreserved	Preservatives						Analyses Test Y/N  VOC      DRO      PAH      PCB      RCRA Metals	Residual Chlorine (Y/N)		
				START		END			# OF CONTAINERS	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			
				DATE	TIME	DATE	TIME		# OF CONTAINERS									
1	WH-SB-GP-12 (2-4')	SL	G			12/26/2013	1440	6	4						2		x x x x x x	013
2	WH-SB-GP-12 (2-4')-FD	SL	G			12/26/2013	1440	6	4						2		x x x x x x	014
3	WH-SB-TB																x	018
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	JEFF Arndt / Peer	12/31/13	1500	AM Page	12/31/13	1541	7.2 Y N Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:				



Sample Condition  
Upon Receipt

Client Name:

*Peer Engineering*

Project #:

WO# : 10253812

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other:

Tracking Number:



Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No Optional: Proj. Due Date: Proj. Name:

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: Temp Blank?  Yes  No

Thermom. Used:  80512447  B88A912167504  Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun  
 72337080  B88A9132521491

Cooler Temp Read (°C): 7.0 Cooler Temp Corrected (°C): 7.2 Biological Tissue Frozen?  Yes  No  N/A  
Temp should be above freezing to 6°C Correction Factor: .2 Date and Initials of Person Examining Contents: JP 12-31-13

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8. <i>out of temp</i>
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	12. <i>1 BUFL for sample #3 has no date, 12/20/13 on COC</i>
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>12)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water) DOC	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Bruce S/ Jeff A

Date/Time: 1/2/14

Field Data Required?  Yes  No

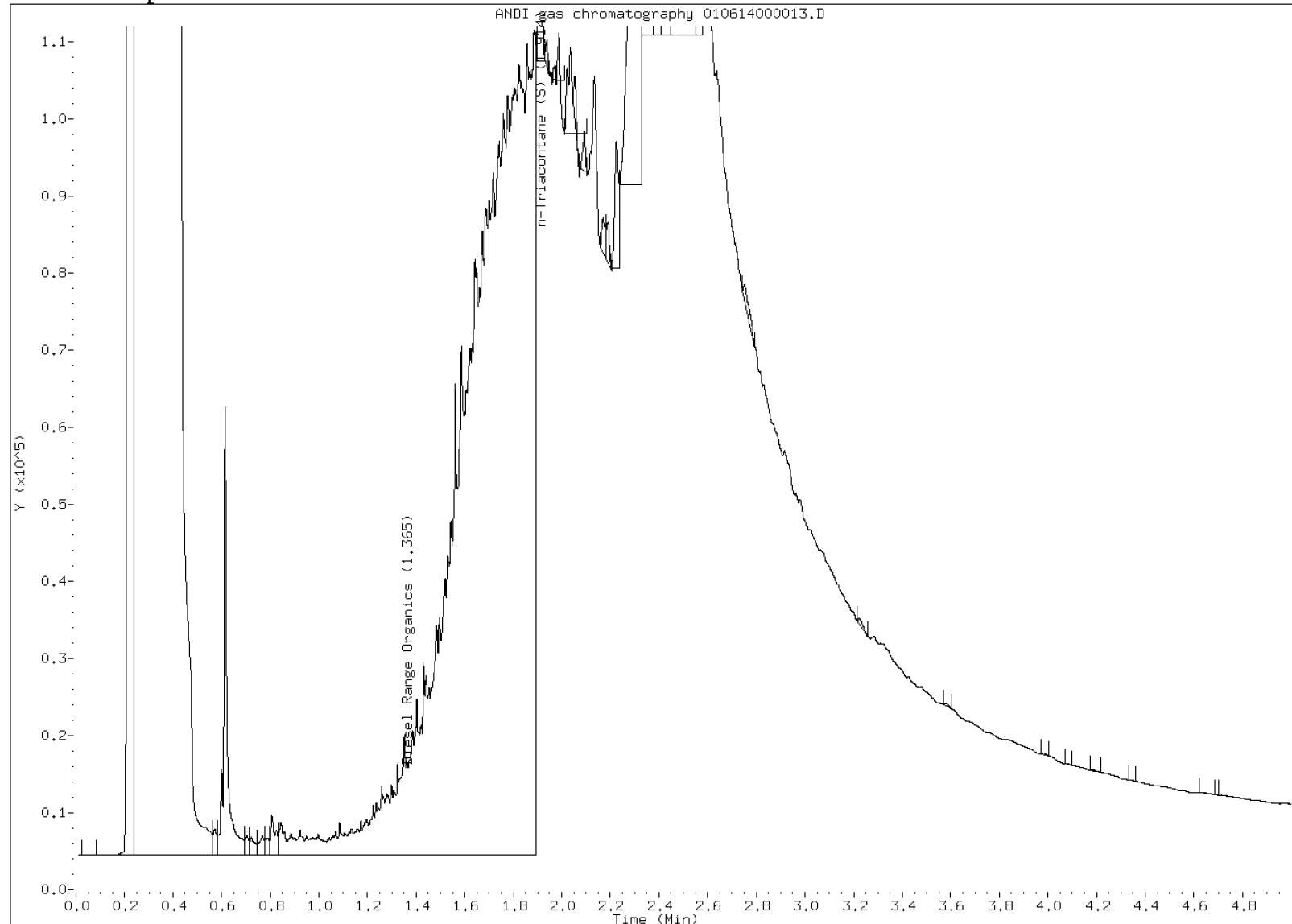
Comments/Resolution: emailed about temp- We will continue unless told otherwise.

Project Manager Review: DAN

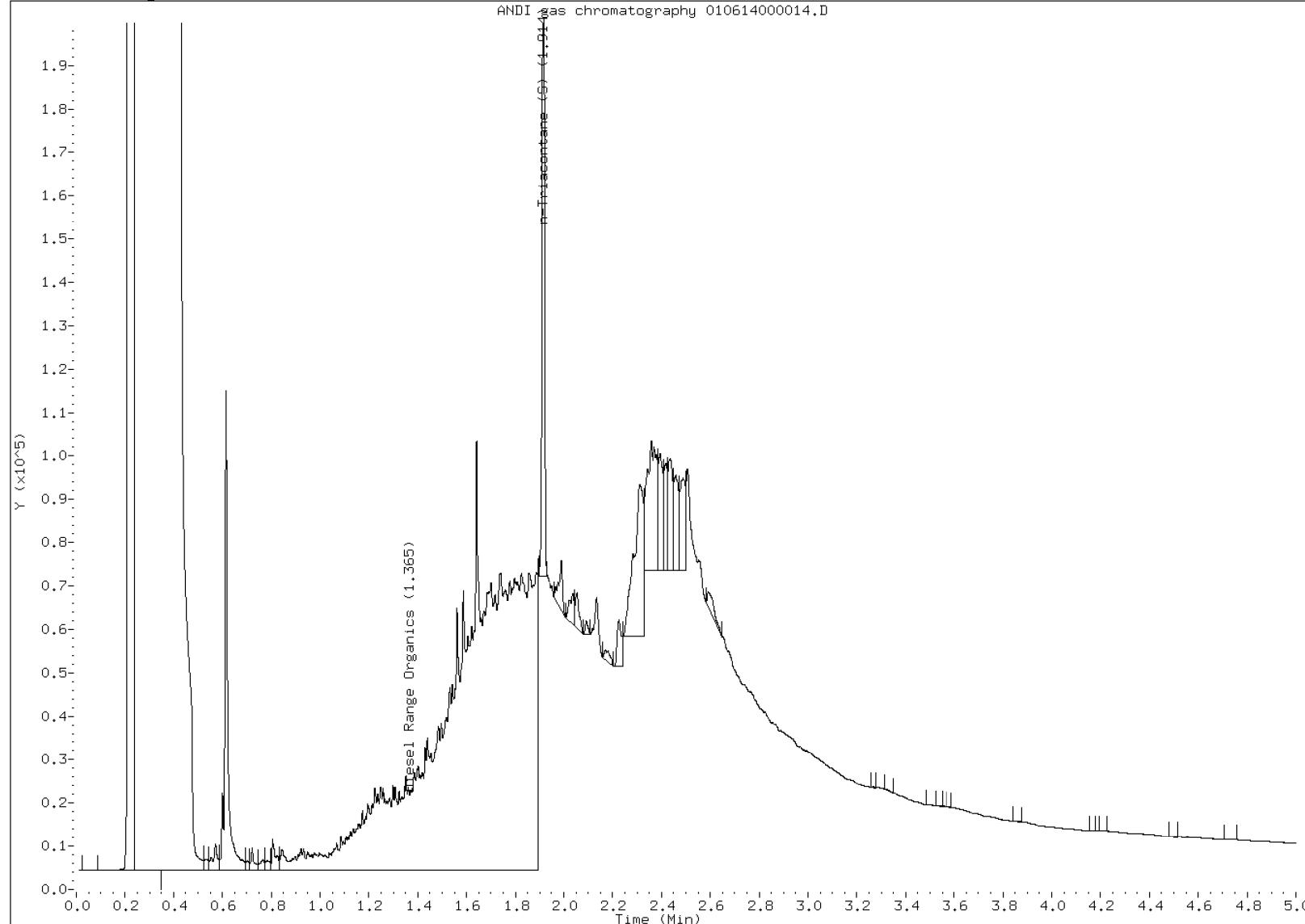
Date: 12/20/14 1/2/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000013.D  
Report Date: 01/06/2014  
Sample ID: 10253812001  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812001,10  
Purge Volume:  
Column phase: DB-5MS

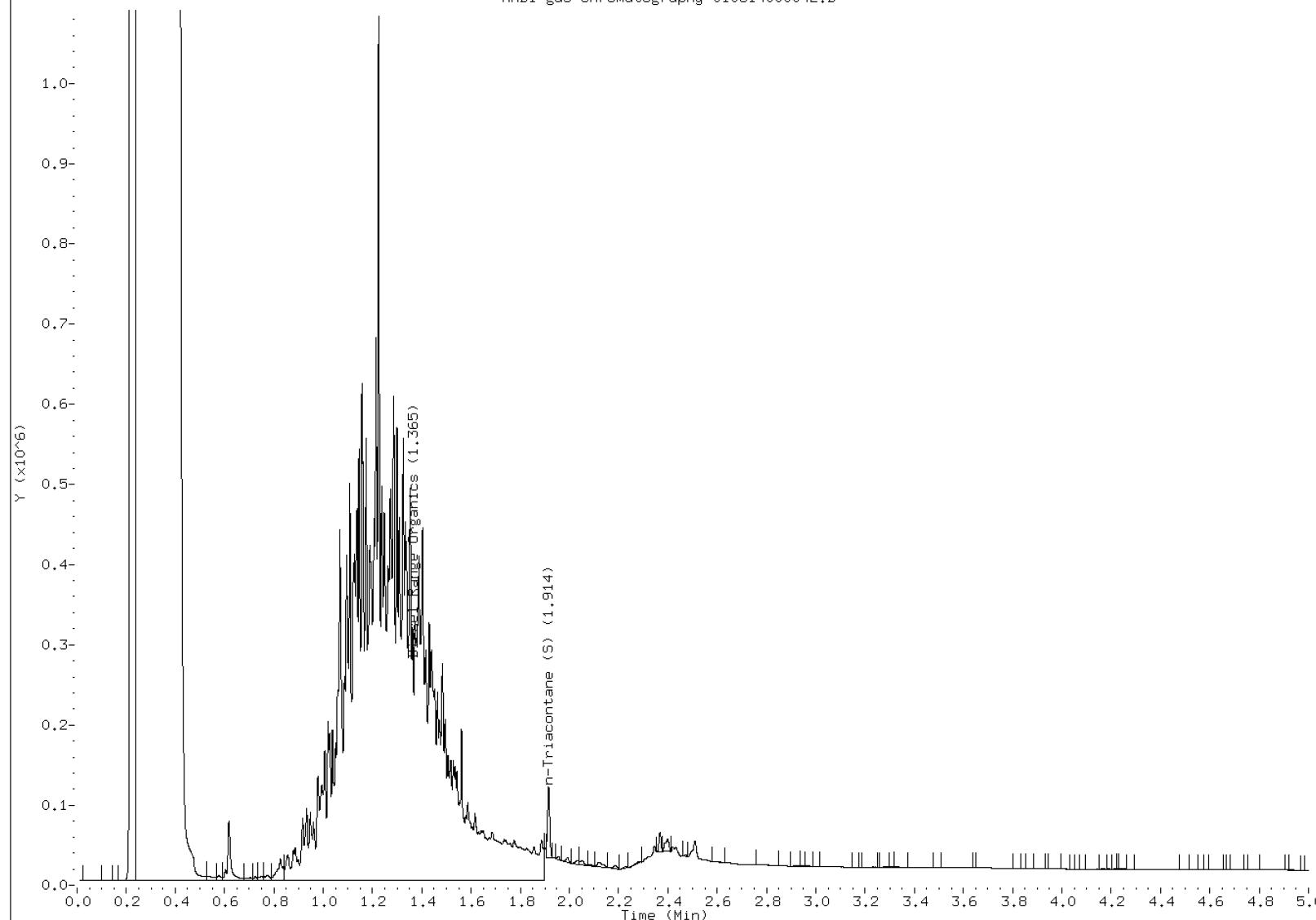


Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000014.D  
Report Date: 01/06/2014  
Sample ID: 10253812002  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812002,5  
Purge Volume:  
Column phase: DB-5MS  
Operator: JRH  
Column diameter: 0.25

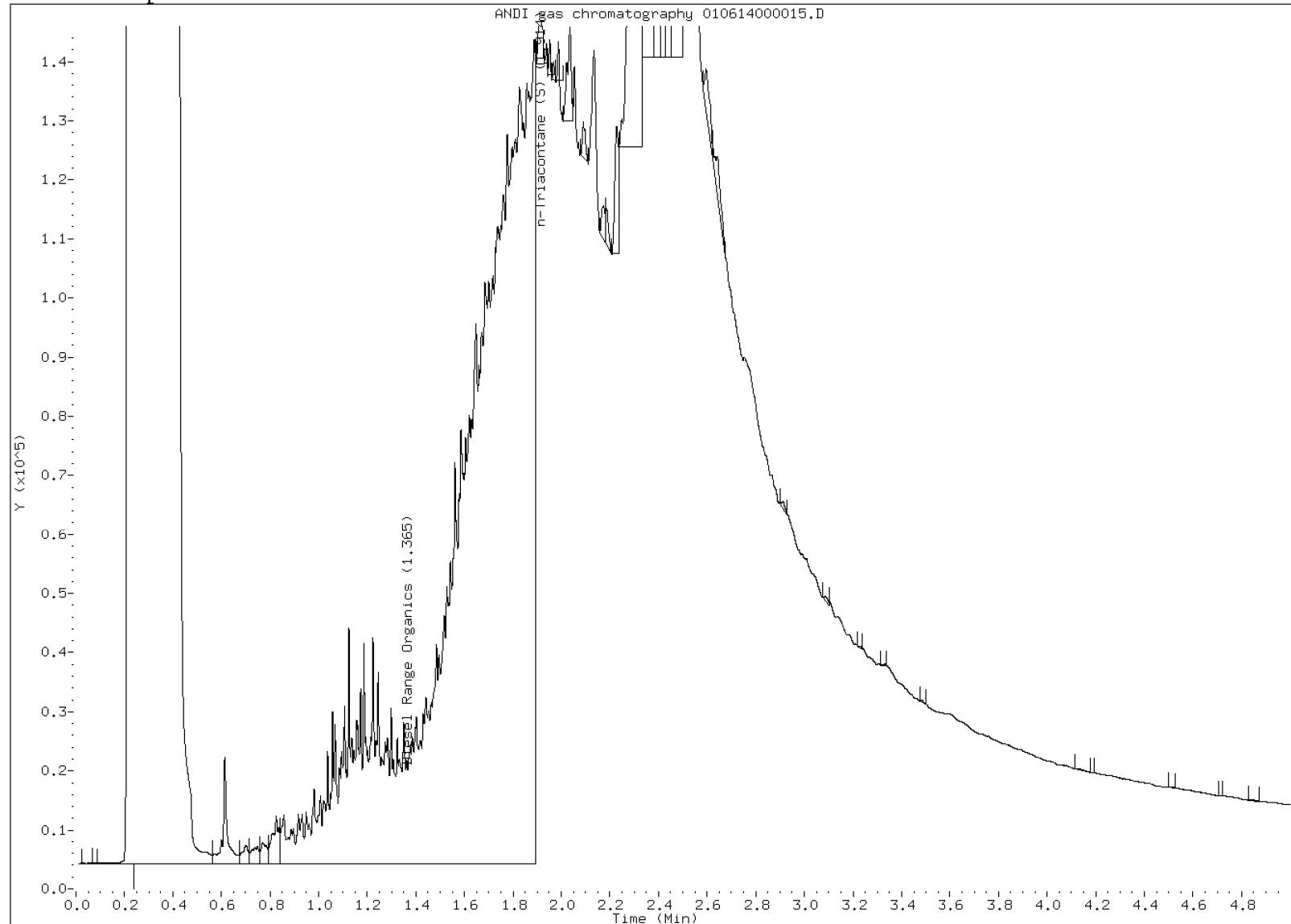


Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000042.D  
Report Date: 01/06/2014  
Sample ID: 10253812003  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812003,10  
Purge Volume:  
Column diameter: 0.25  
Column phase: DB-5MS

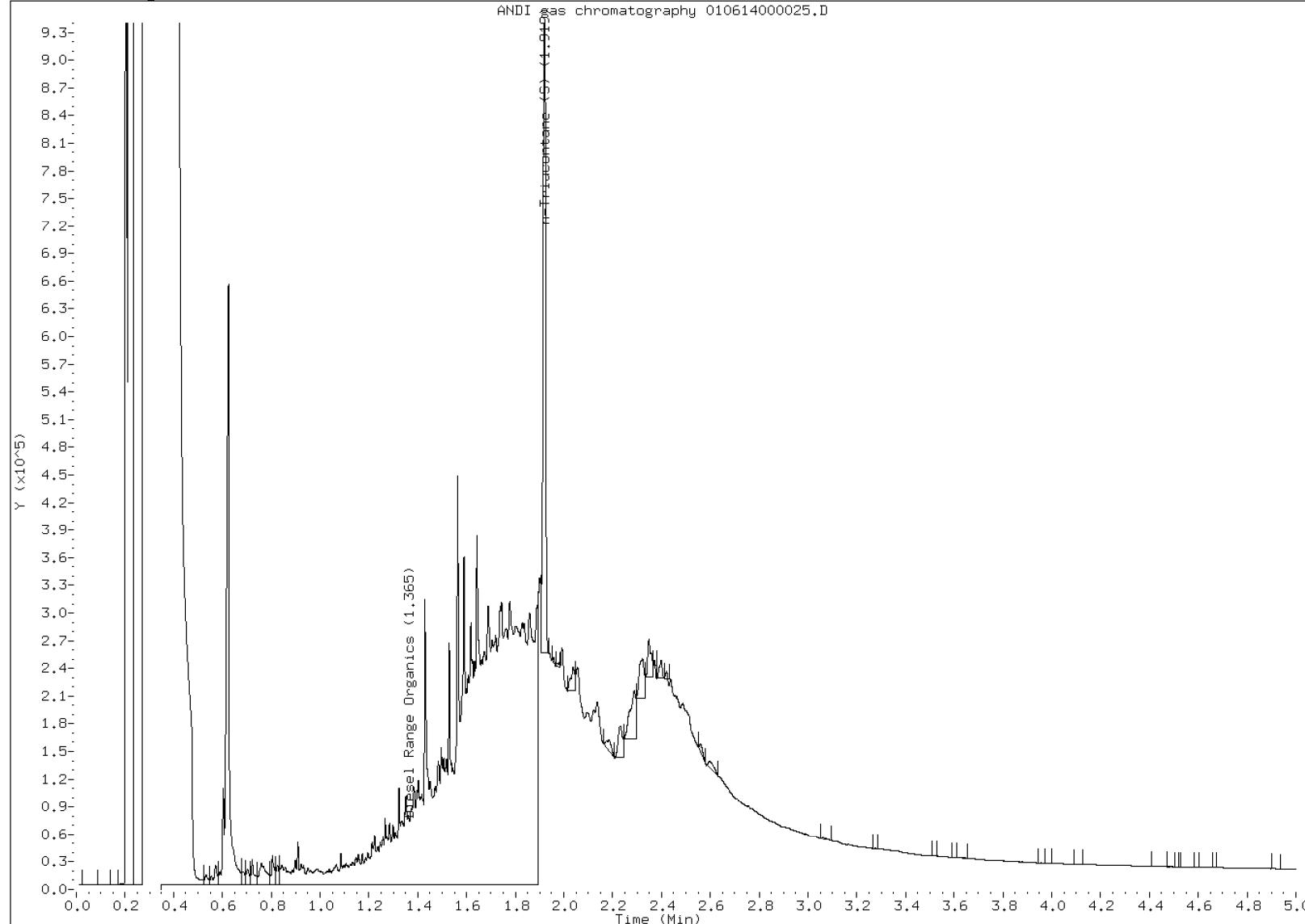
ANDI gas chromatography 010614000042.D



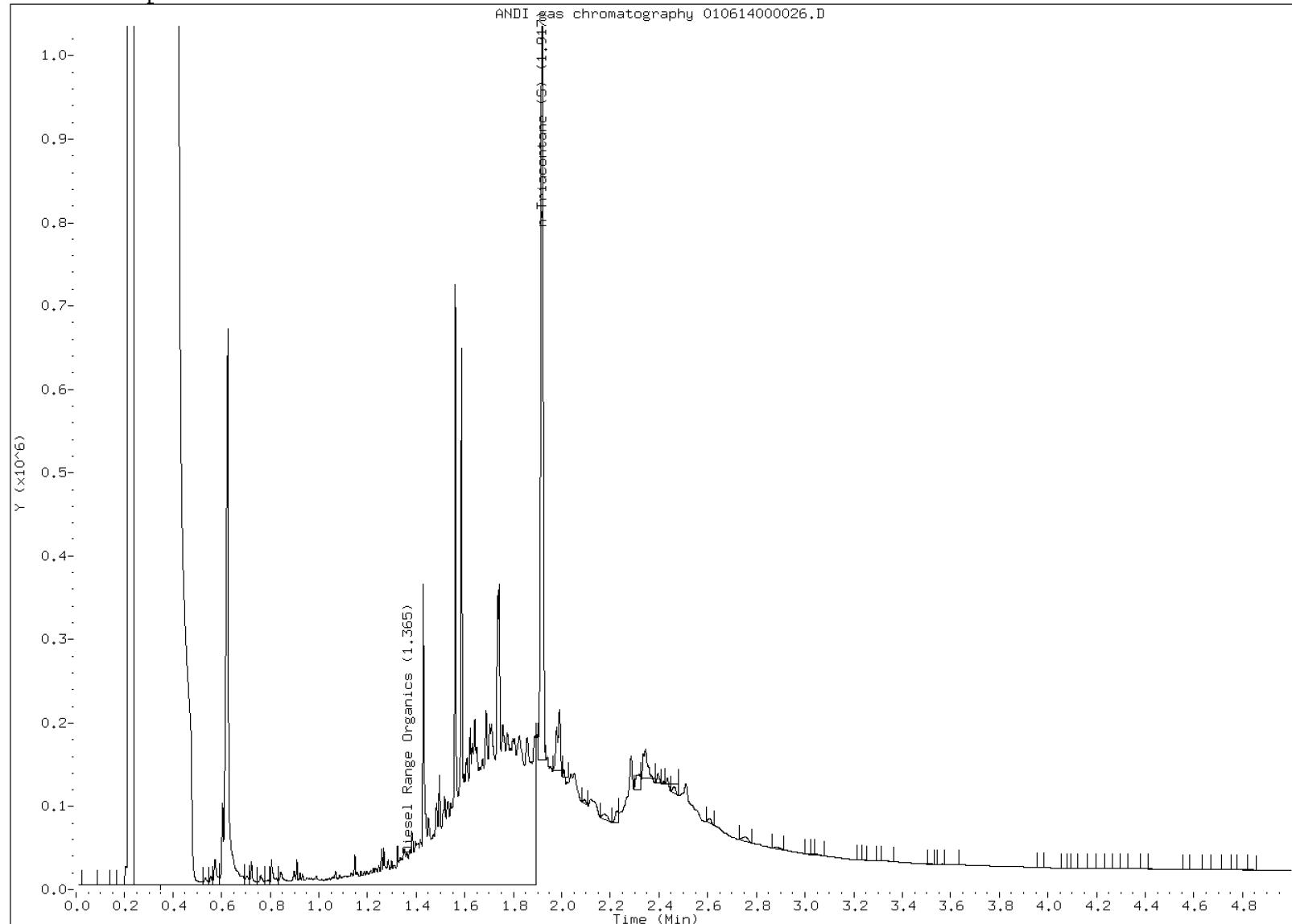
Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000015.D  
Report Date: 01/06/2014  
Sample ID: 10253812004  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812004,5  
Purge Volume:  
Column phase: DB-5MS  
Operator: JRH  
Column diameter: 0.25



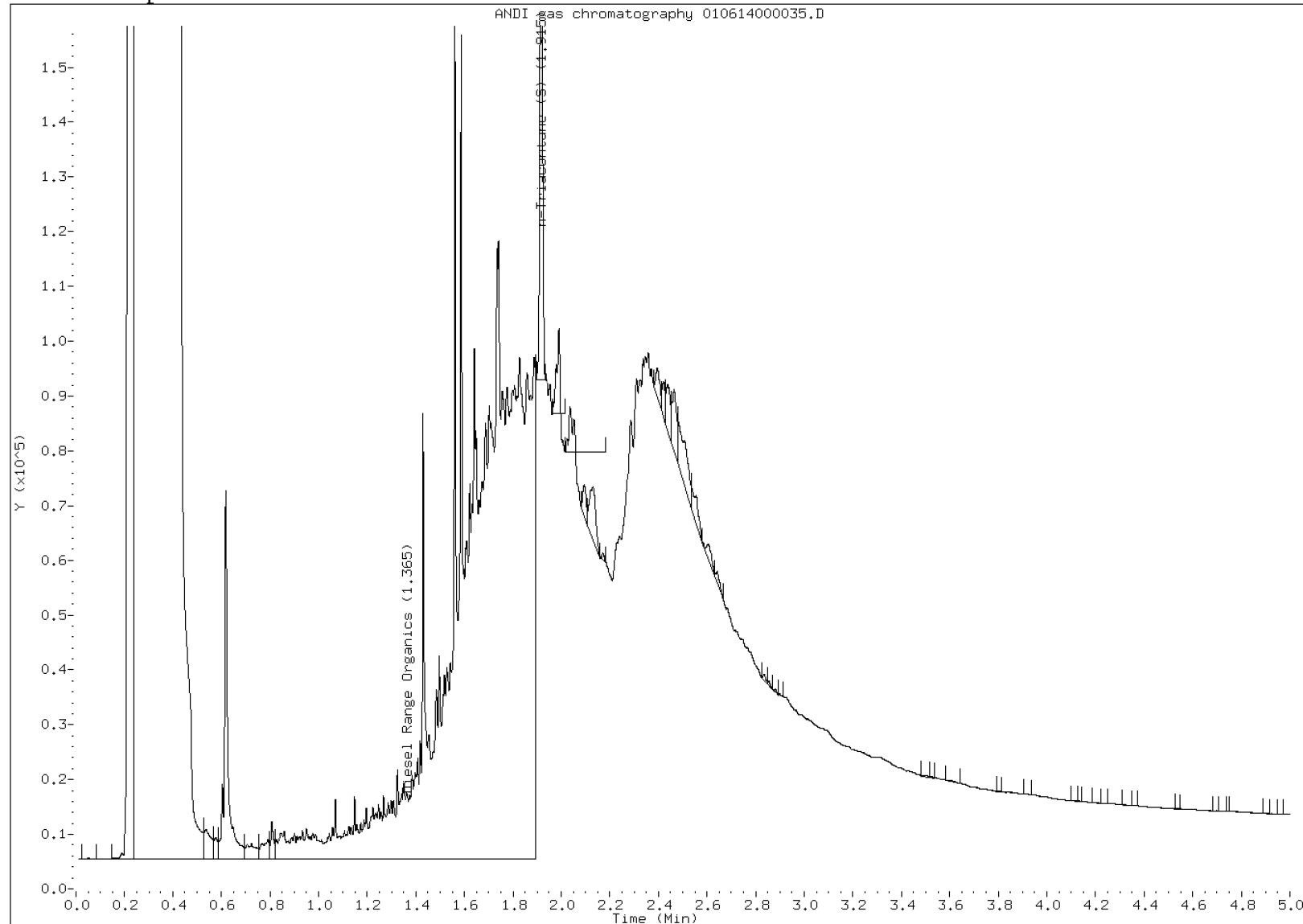
Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000025.D  
Report Date: 01/06/2014  
Sample ID: 10253812005  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812005  
Purge Volume:  
Column phase: DB-5MS  
Operator: JRH  
Column diameter: 0.25



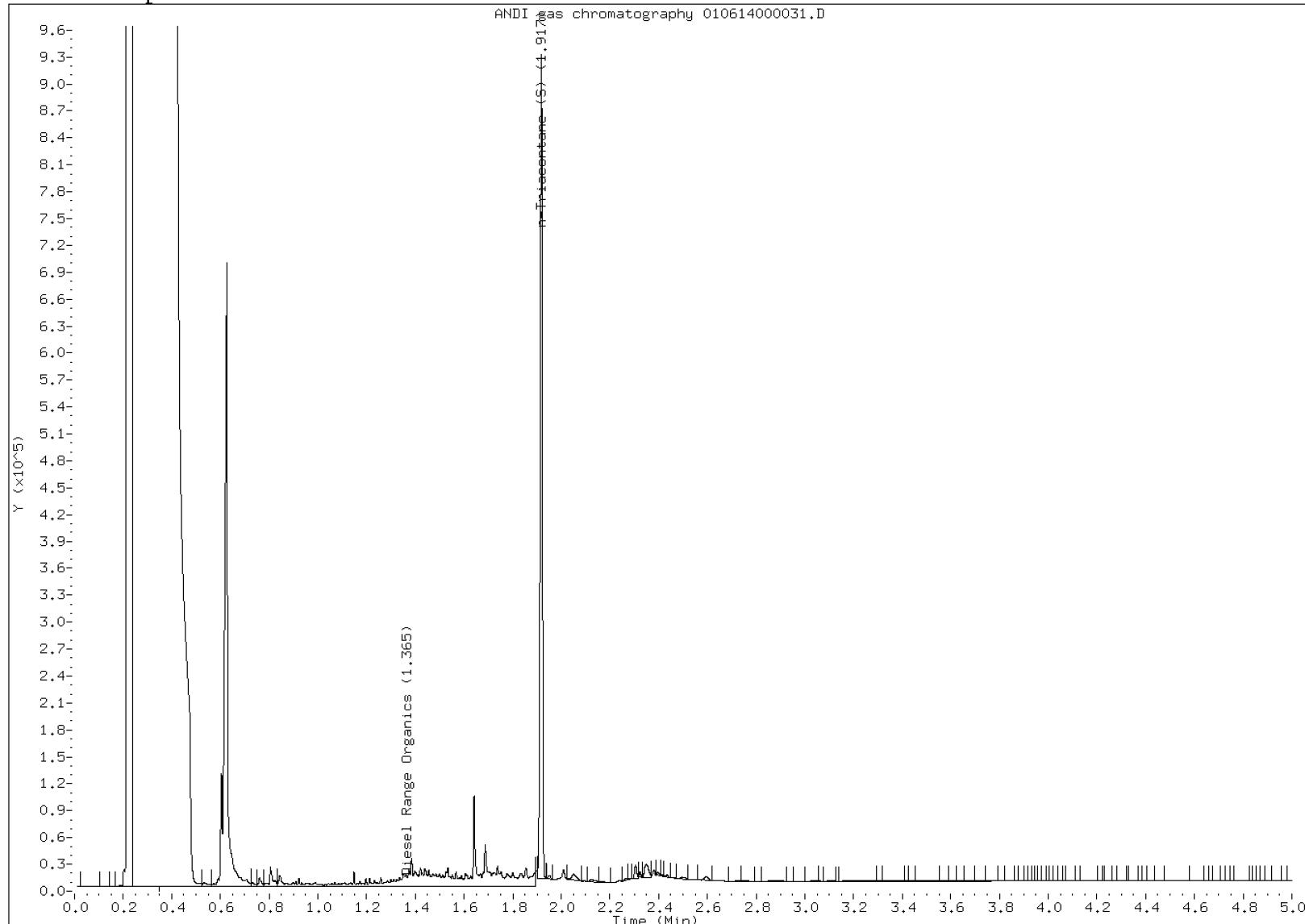
Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000026.D  
Report Date: 01/06/2014  
Sample ID: 10253812006  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812006  
Purge Volume:  
Column phase: DB-5MS  
Operator: JRH  
Column diameter: 0.25



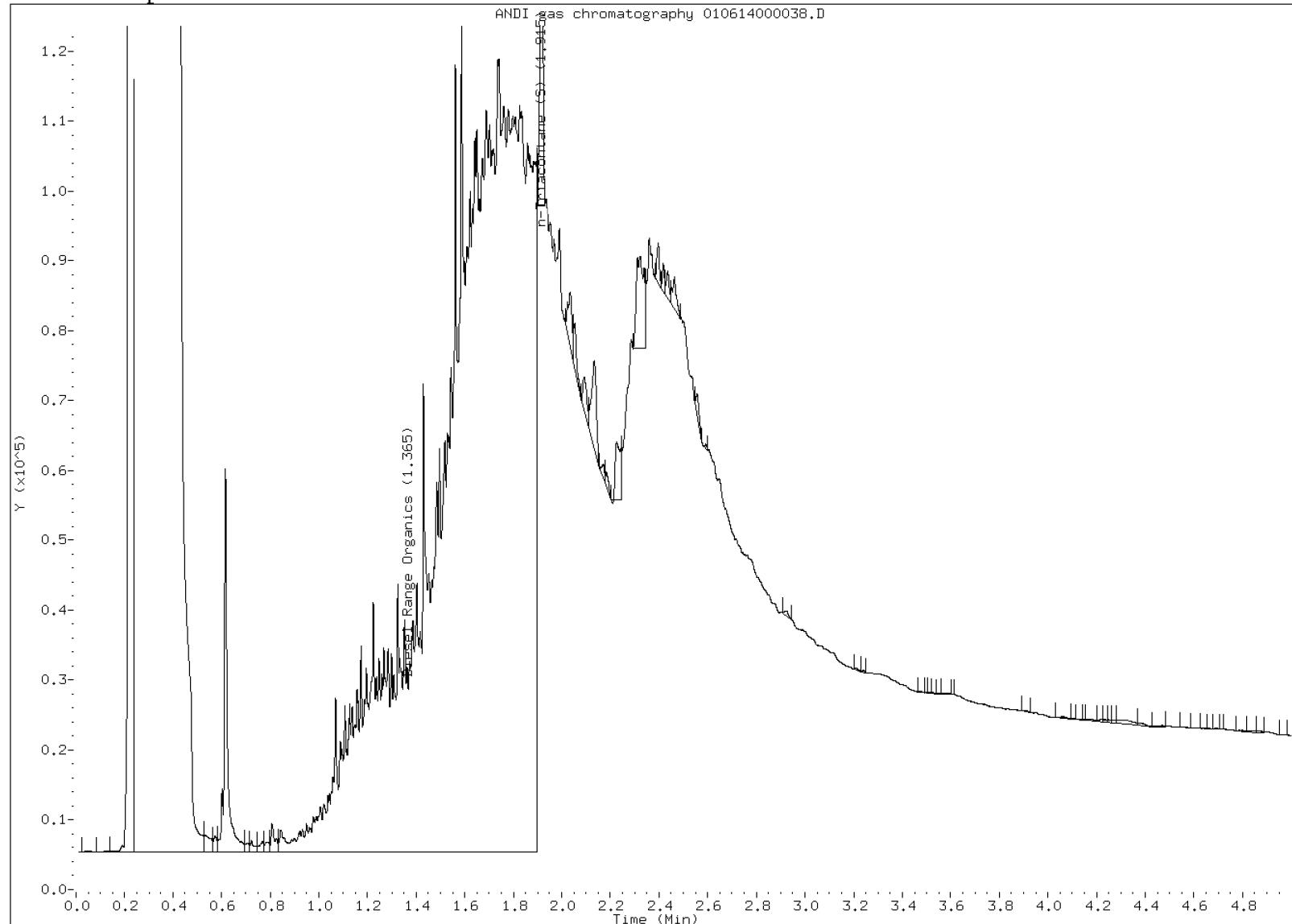
Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000035.D  
Report Date: 01/06/2014  
Sample ID: 10253812007  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812007,2  
Purge Volume:  
Column phase: DB-5MS  
Operator: JRH  
Column diameter: 0.25



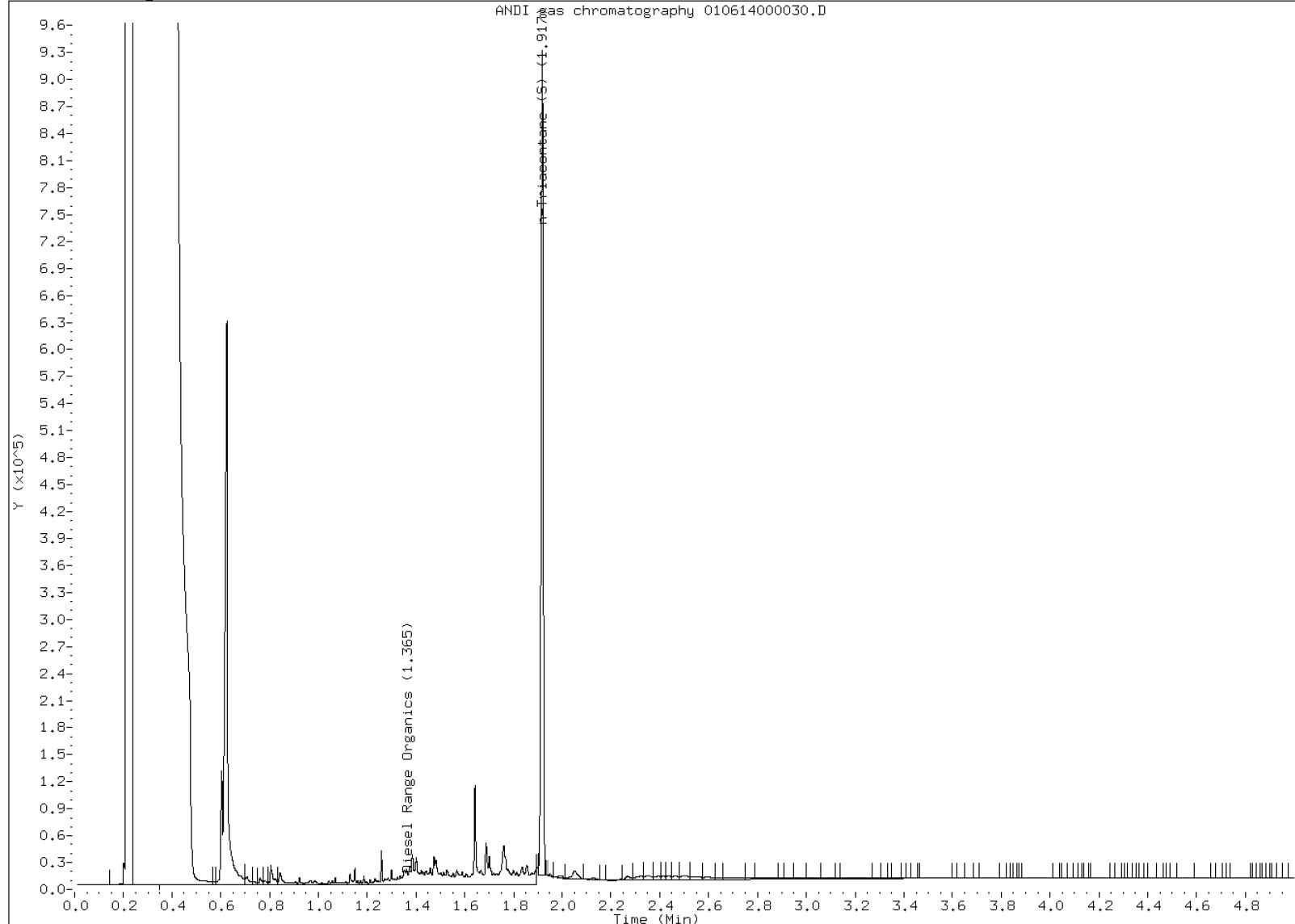
Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000031.D  
Report Date: 01/06/2014  
Sample ID: 10253812008  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812008  
Purge Volume:  
Column phase: DB-5MS  
Operator: JRH  
Column diameter: 0.25



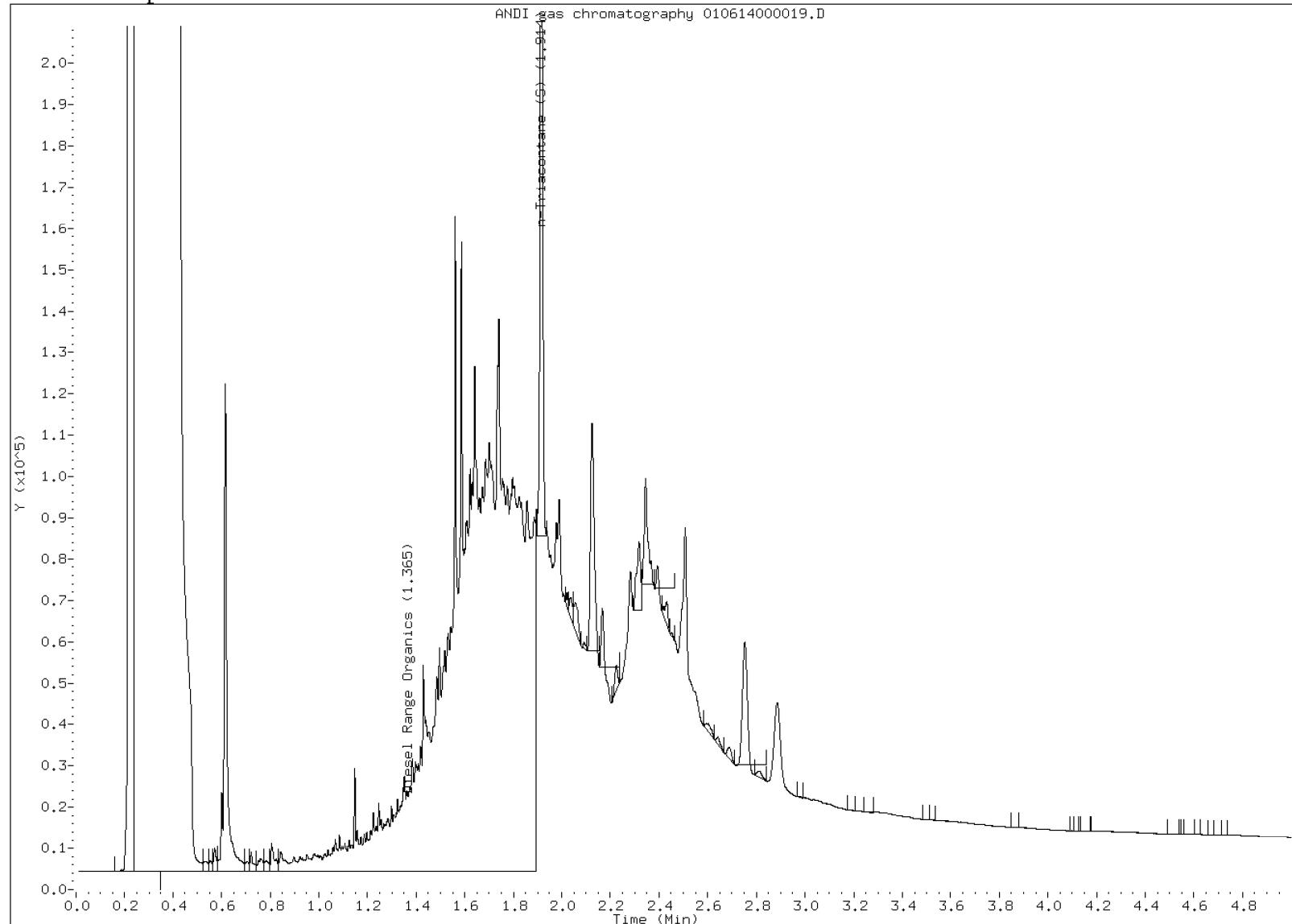
Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000038.D  
Report Date: 01/06/2014  
Sample ID: 10253812009  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812009,2  
Purge Volume:  
Column phase: DB-5MS



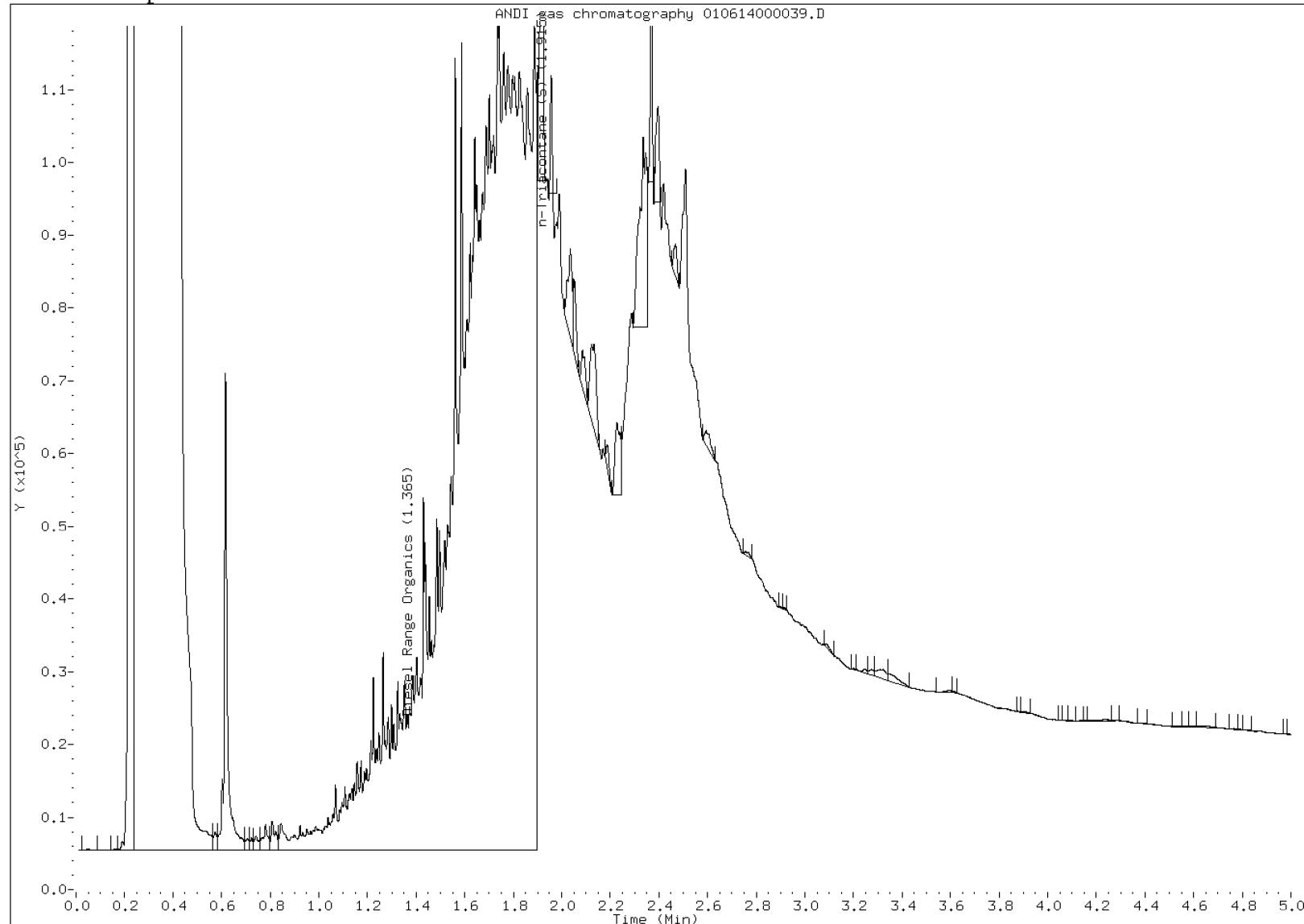
Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000030.D  
Report Date: 01/06/2014  
Sample ID: 10253812010  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812010  
Purge Volume:  
Column phase: DB-5MS  
Operator: JRH  
Column diameter: 0.25



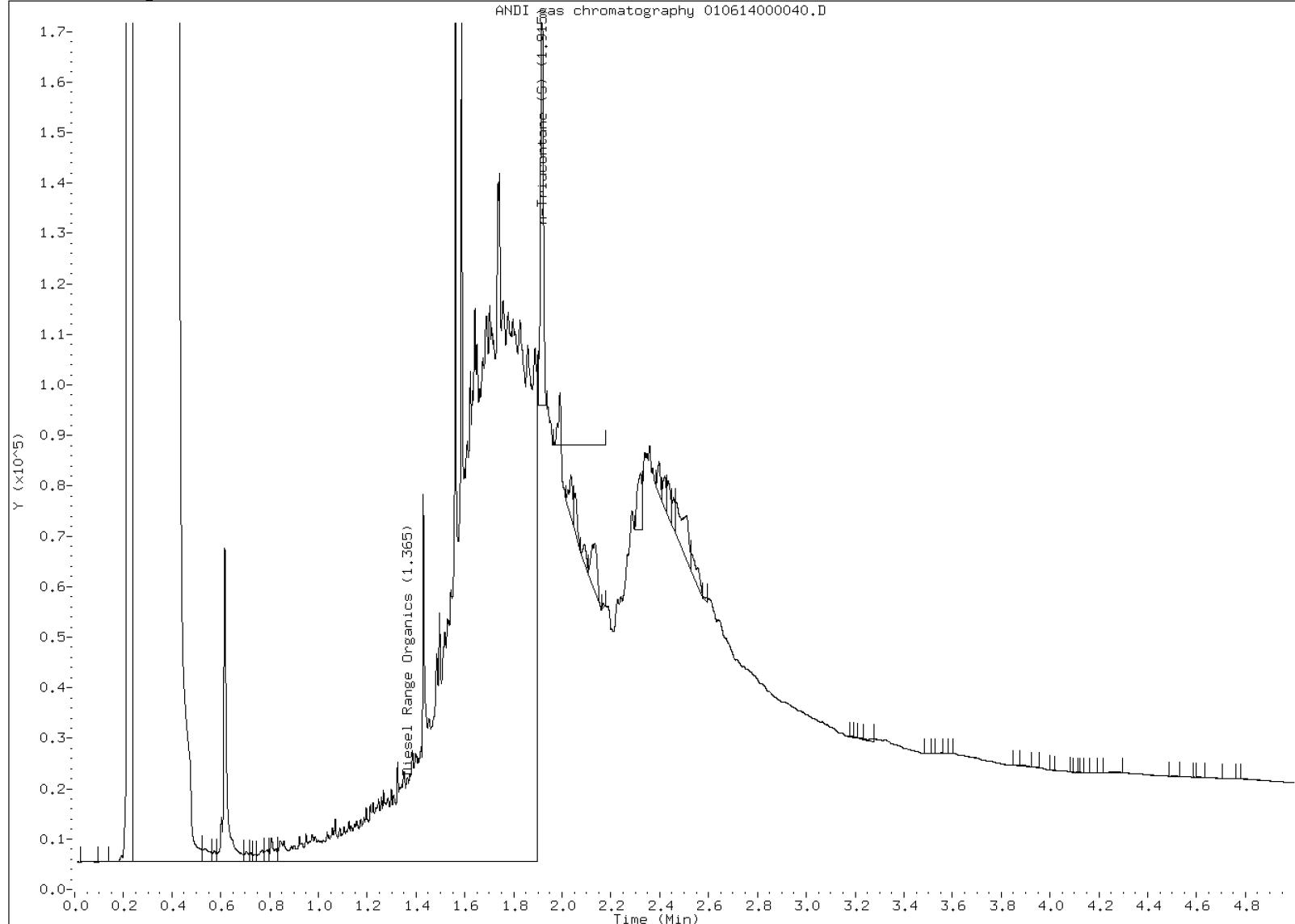
Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000019.D  
Report Date: 01/06/2014  
Sample ID: 10253812011  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812011,5  
Purge Volume:  
Column phase: DB-5MS  
Operator: JRH  
Column diameter: 0.25



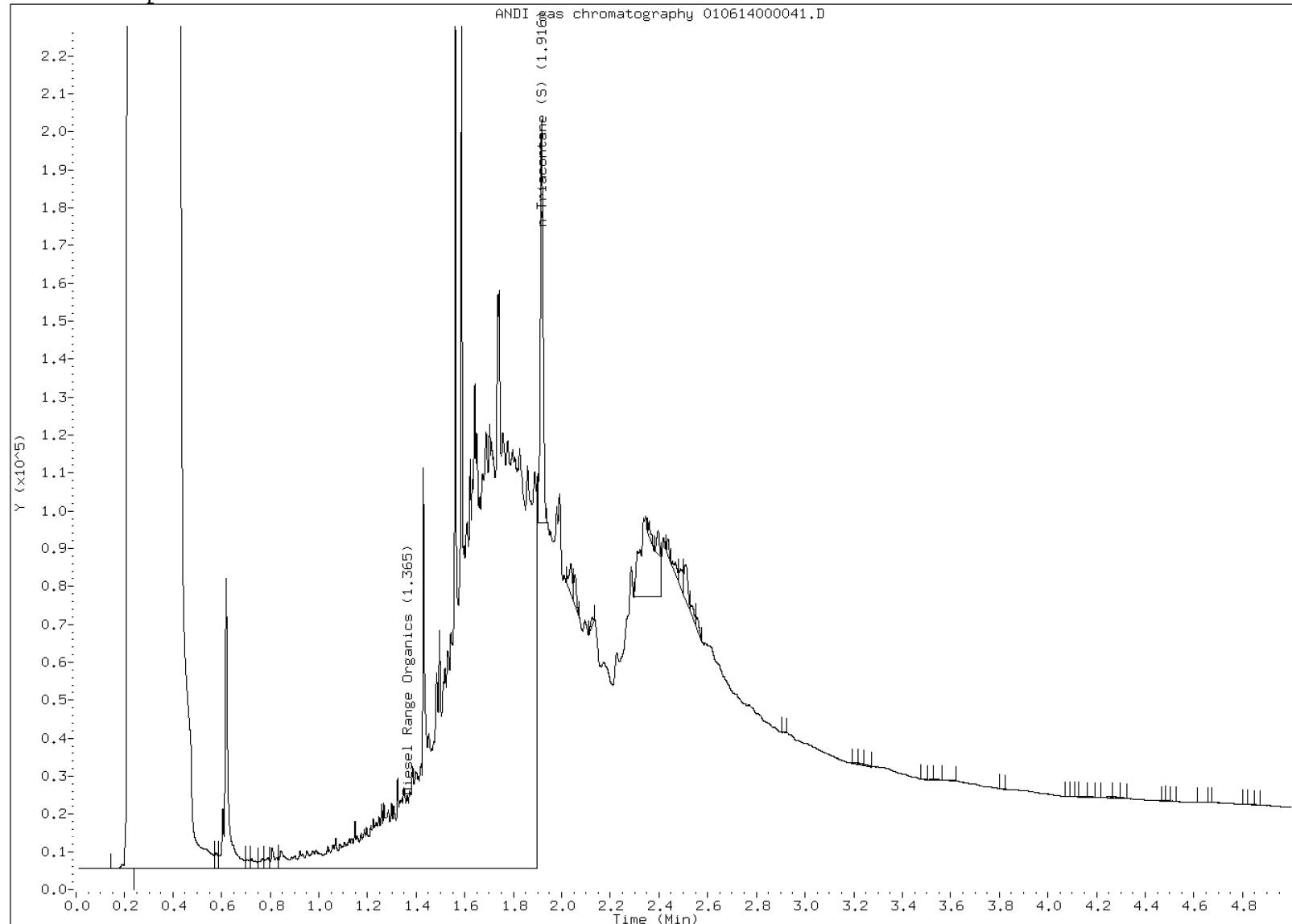
Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000039.D  
Report Date: 01/06/2014  
Sample ID: 10253812012  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812012,2  
Purge Volume:  
Column phase: DB-5MS



Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000040.D  
Report Date: 01/06/2014  
Sample ID: 10253812013  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812013,2  
Purge Volume:  
Column phase: DB-5MS  
Operator: JRH  
Column diameter: 0.25



Data File: \\192.168.10.12\chem\10gcs9.i\010614dro.b/010614000041.D  
Report Date: 01/06/2014  
Sample ID: 10253812014  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253812014,2  
Purge Volume:  
Column phase: DB-5MS  
Operator: JRH  
Column diameter: 0.25



January 16, 2014

Mr. Bruce Schaepe  
Peer Engineering, Inc.  
7615 Golden Triangle Drive  
Suite N  
Eden Prairie, MN 55344

RE: Project: 22056.06 1522 Whitaker St. REV  
Pace Project No.: 10253658

Dear Mr. Schaepe:

Enclosed are the analytical results for sample(s) received by the laboratory on December 27, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report has been revised to include DRO - Silica Gel data requested by the client on Jan 9, 2014.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Diane J. Anderson

diane.anderson@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## CERTIFICATIONS

Project: 22056.06 1522 Whitaker St. REV  
Pace Project No.: 10253658

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414  
A2LA Certification #: 2926.01  
Alabama Dept of Environmental Management #40770  
Alaska Certification #: UST-078  
Alaska Certification #MN0064  
Arizona Certification #: AZ-0014  
Arkansas Certification #: 88-0680  
California Certification #: 01155CA  
Colorado Certification #Pace  
Connecticut Certification #: PH-0256  
EPA Region 8 Certification #: Pace  
EPA Region 5 #WD-15J  
Florida/NELAP Certification #: E87605  
Georgia Certification #: 959  
Hawaii Certification #Pace  
Idaho Certification #: MN0064  
Illinois Certification #: 200011  
Indiana Certification#C-MN-01  
Iowa Certification #: 368  
Kansas Certification #: E-10167  
Kentucky Dept of Envi. Protection - DW #90062  
Louisiana Certification #: 03086  
Louisiana Certification #: LA080009  
Maine Certification #: 2007029  
Maryland Certification #: 322

Michigan DEQ Certification #: 9909  
Minnesota Certification #: 027-053-137  
Mississippi Certification #: Pace  
Montana Certification #: MT CERT0092  
Nebraska Certification #: Pace  
Nevada Certification #: MN\_00064  
New Jersey Certification #: MN-002  
New York Certification #: 11647  
North Carolina Certification #: 530  
North Dakota Certification #: R-036  
Ohio VAP Certification #: CL101  
Oklahoma Certification #: 9507  
Oregon Certification #: MN200001  
Oregon Certification #: MN300001  
Pennsylvania Certification #: 68-00563  
Puerto Rico Certification  
Tennessee Certification #: 02818  
Texas Certification #: T104704192  
Utah Certification #: MN00064  
Virginia/DCLS Certification #: 002521  
Virginia/VELAP Certification #: 460163  
Washington Certification #: C754  
West Virginia Certification #: 382  
Wisconsin Certification #: 999407970

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## SAMPLE SUMMARY

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10253658001	WH-SW-GP-1	Water	12/26/13 13:55	12/27/13 17:25
10253658002	WH-SW-GP-3	Water	12/26/13 13:15	12/27/13 17:25
10253658003	WH-SW-GP-5	Water	12/27/13 09:20	12/27/13 17:25
10253658004	WH-SW-GP-5-FD	Water	12/27/13 09:20	12/27/13 17:25
10253658005	WH-SW-GP-7	Water	12/26/13 09:50	12/27/13 17:25
10253658006	WH-SW-GP-9	Water	12/26/13 11:15	12/27/13 17:25
10253658007	WH-SW-GP-12	Water	12/26/13 15:05	12/27/13 17:25

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## SAMPLE ANALYTE COUNT

Project: 22056.06 1522 Whitaker St. REV  
 Pace Project No.: 10253658

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10253658001	WH-SW-GP-1	WI MOD DRO	MT	2
		WI MOD DRO	JRH	2
		EPA 8260	SH2	70
10253658002	WH-SW-GP-3	WI MOD DRO	MT	2
		WI MOD DRO	JRH	2
		EPA 8260	SH2	70
10253658003	WH-SW-GP-5	WI MOD DRO	MT	2
		WI MOD DRO	JRH	2
		EPA 8260	MJH	70
10253658004	WH-SW-GP-5-FD	WI MOD DRO	MT	2
		WI MOD DRO	JRH	2
		EPA 8260	MJH	70
10253658005	WH-SW-GP-7	WI MOD DRO	MT	2
		WI MOD DRO	JRH	2
		EPA 8260	MJH	70
10253658006	WH-SW-GP-9	WI MOD DRO	MT	2
		WI MOD DRO	JRH	2
		EPA 8260	MJH	70
10253658007	WH-SW-GP-12	WI MOD DRO	MT	2
		WI MOD DRO	JRH	2
		EPA 8260	MJH	70

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
 without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Sample: WH-SW-GP-1	Lab ID: 10253658001	Collected: 12/26/13 13:55	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	576	ug/L	108	1	12/30/13 09:26	01/02/14 11:32		
<b>Surrogates</b>								
n-Triacontane (S)	96	%.	50-150	1	12/30/13 09:26	01/02/14 11:32	638-68-6	
<b>WIDRO GCS Silica Gel</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	ND	mg/L	0.11	1	12/30/13 09:26	01/12/14 10:46		
<b>Surrogates</b>								
n-Triacontane (S)	87	%.	53-125	1	12/30/13 09:26	01/12/14 10:46	638-68-6	
<b>8260 VOC</b>	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		01/06/14 15:11	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		01/06/14 15:11	107-05-1	
Benzene	ND	ug/L	1.0	1		01/06/14 15:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/06/14 15:11	108-86-1	
Bromoform	ND	ug/L	1.0	1		01/06/14 15:11	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		01/06/14 15:11	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		01/06/14 15:11	75-25-2	
Bromoform	ND	ug/L	4.0	1		01/06/14 15:11	74-83-9	
Bromomethane	ND	ug/L	4.0	1		01/06/14 15:11	104-51-8	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/06/14 15:11	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/06/14 15:11	135-98-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/06/14 15:11	98-06-6	
tert-Butylbenzene	ND	ug/L	1.0	1		01/06/14 15:11	56-23-5	
Carbon tetrachloride	ND	ug/L	1.0	1		01/06/14 15:11	108-90-7	
Chlorobenzene	ND	ug/L	1.0	1		01/06/14 15:11	75-00-3	
Chloroethane	ND	ug/L	4.0	1		01/06/14 15:11	67-66-3	
Chloroform	ND	ug/L	1.0	1		01/06/14 15:11	74-87-3	
Chloromethane	ND	ug/L	4.0	1		01/06/14 15:11	95-49-8	
2-Chlorotoluene	ND	ug/L	1.0	1		01/06/14 15:11	106-43-4	
4-Chlorotoluene	ND	ug/L	1.0	1		01/06/14 15:11	124-48-1	L3
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		01/06/14 15:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/06/14 15:11	106-93-4	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/06/14 15:11	74-95-3	
Dibromomethane	ND	ug/L	4.0	1		01/06/14 15:11	75-71-8	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/06/14 15:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/06/14 15:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/06/14 15:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/06/14 15:11	156-59-2	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/06/14 15:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/06/14 15:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/06/14 15:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/06/14 15:11	142-28-9	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/06/14 15:11	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		01/06/14 15:11	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		01/06/14 15:11	594-20-7	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/06/14 15:11	594-20-7	
2,2-Dichloropropane	ND	ug/L	4.0	1		01/06/14 15:11	563-58-6	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/06/14 15:11		

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Sample: WH-SW-GP-1	Lab ID: 10253658001	Collected: 12/26/13 13:55	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 VOC</b>	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND ug/L		4.0	1		01/06/14 15:11	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		01/06/14 15:11	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		01/06/14 15:11	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		01/06/14 15:11	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		01/06/14 15:11	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		01/06/14 15:11	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		01/06/14 15:11	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		01/06/14 15:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		01/06/14 15:11	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		01/06/14 15:11	1634-04-4	
Naphthalene	ND ug/L		4.0	1		01/06/14 15:11	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		01/06/14 15:11	103-65-1	
Styrene	ND ug/L		1.0	1		01/06/14 15:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		01/06/14 15:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		01/06/14 15:11	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		01/06/14 15:11	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		01/06/14 15:11	109-99-9	
Toluene	ND ug/L		1.0	1		01/06/14 15:11	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		01/06/14 15:11	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		01/06/14 15:11	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		01/06/14 15:11	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		01/06/14 15:11	79-00-5	
Trichloroethene	ND ug/L		1.0	1		01/06/14 15:11	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		01/06/14 15:11	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		01/06/14 15:11	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		01/06/14 15:11	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		01/06/14 15:11	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		01/06/14 15:11	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		01/06/14 15:11	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		01/06/14 15:11	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94 %.		75-125	1		01/06/14 15:11	17060-07-0	
Toluene-d8 (S)	96 %.		75-125	1		01/06/14 15:11	2037-26-5	
4-Bromofluorobenzene (S)	93 %.		75-125	1		01/06/14 15:11	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Sample: WH-SW-GP-3	Lab ID: 10253658002	Collected: 12/26/13 13:15	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	1030 ug/L		106	1	12/30/13 09:26	01/02/14 11:39		
<b>Surrogates</b>								
n-Triacontane (S)	65 %.		50-150	1	12/30/13 09:26	01/02/14 11:39	638-68-6	
<b>WIDRO GCS Silica Gel</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	ND mg/L		0.11	1	12/30/13 09:26	01/12/14 10:53		
<b>Surrogates</b>								
n-Triacontane (S)	57 %.		53-125	1	12/30/13 09:26	01/12/14 10:53	638-68-6	
<b>8260 VOC</b>	Analytical Method: EPA 8260							
Acetone	ND ug/L		20.0	1		01/06/14 15:28	67-64-1	
Allyl chloride	ND ug/L		4.0	1		01/06/14 15:28	107-05-1	
Benzene	2.2 ug/L		1.0	1		01/06/14 15:28	71-43-2	
Bromobenzene	ND ug/L		1.0	1		01/06/14 15:28	108-86-1	
Bromoform	ND ug/L		1.0	1		01/06/14 15:28	74-97-5	
Bromochloromethane	ND ug/L		1.0	1		01/06/14 15:28	75-27-4	
Bromodichloromethane	ND ug/L		1.0	1		01/06/14 15:28	75-25-2	
Bromoform	ND ug/L		4.0	1		01/06/14 15:28	74-83-9	
Bromomethane	ND ug/L		4.0	1		01/06/14 15:28	104-51-8	
2-Butanone (MEK)	ND ug/L		5.0	1		01/06/14 15:28	135-98-8	
n-Butylbenzene	ND ug/L		1.0	1		01/06/14 15:28	98-06-6	
sec-Butylbenzene	ND ug/L		1.0	1		01/06/14 15:28	106-43-4	
tert-Butylbenzene	ND ug/L		1.0	1		01/06/14 15:28	124-48-1	L3
Carbon tetrachloride	ND ug/L		1.0	1		01/06/14 15:28	541-73-1	
Chlorobenzene	ND ug/L		1.0	1		01/06/14 15:28	106-93-4	
Chloroethane	ND ug/L		4.0	1		01/06/14 15:28	75-35-4	
Chloroform	ND ug/L		1.0	1		01/06/14 15:28	75-71-8	
Chloromethane	ND ug/L		4.0	1		01/06/14 15:28	142-28-9	
2-Chlorotoluene	ND ug/L		1.0	1		01/06/14 15:28	156-59-2	
4-Chlorotoluene	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		01/06/14 15:28	156-60-5	
Dibromochloromethane	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
Dibromomethane	ND ug/L		4.0	1		01/06/14 15:28	156-60-5	
1,2-Dichlorobenzene	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
1,3-Dichlorobenzene	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
1,4-Dichlorobenzene	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
Dichlorodifluoromethane	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
1,1-Dichloroethane	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
1,2-Dichloroethane	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
1,1-Dichloroethene	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
1,2-Dichloropropane	ND ug/L		4.0	1		01/06/14 15:28	156-60-5	
1,3-Dichloropropane	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	
2,2-Dichloropropane	ND ug/L		4.0	1		01/06/14 15:28	156-60-5	
1,1-Dichloropropene	ND ug/L		1.0	1		01/06/14 15:28	156-60-5	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Sample: WH-SW-GP-3	Lab ID: 10253658002	Collected: 12/26/13 13:15	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 VOC</b>	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND ug/L		4.0	1		01/06/14 15:28	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		01/06/14 15:28	10061-02-6	
Diethyl ether (Ethyl ether)	<b>25.8</b> ug/L		4.0	1		01/06/14 15:28	60-29-7	
Ethylbenzene	<b>2.1</b> ug/L		1.0	1		01/06/14 15:28	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		01/06/14 15:28	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		01/06/14 15:28	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		01/06/14 15:28	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		01/06/14 15:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		01/06/14 15:28	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		01/06/14 15:28	1634-04-4	
Naphthalene	ND ug/L		4.0	1		01/06/14 15:28	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		01/06/14 15:28	103-65-1	
Styrene	ND ug/L		1.0	1		01/06/14 15:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		01/06/14 15:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		01/06/14 15:28	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		01/06/14 15:28	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		01/06/14 15:28	109-99-9	
Toluene	<b>2.2</b> ug/L		1.0	1		01/06/14 15:28	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		01/06/14 15:28	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		01/06/14 15:28	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		01/06/14 15:28	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		01/06/14 15:28	79-00-5	
Trichloroethene	ND ug/L		1.0	1		01/06/14 15:28	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		01/06/14 15:28	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		01/06/14 15:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		01/06/14 15:28	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		01/06/14 15:28	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		01/06/14 15:28	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		01/06/14 15:28	75-01-4	
Xylene (Total)	<b>4.9</b> ug/L		3.0	1		01/06/14 15:28	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94 %.		75-125	1		01/06/14 15:28	17060-07-0	
Toluene-d8 (S)	96 %.		75-125	1		01/06/14 15:28	2037-26-5	
4-Bromofluorobenzene (S)	93 %.		75-125	1		01/06/14 15:28	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Sample: WH-SW-GP-5	Lab ID: 10253658003	Collected: 12/27/13 09:20	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	210	ug/L	110	1	12/30/13 09:26	01/02/14 11:04		
<b>Surrogates</b>								
n-Triacontane (S)	101	%	50-150	1	12/30/13 09:26	01/02/14 11:04	638-68-6	
<b>WIDRO GCS Silica Gel</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	ND	mg/L	0.11	1	12/30/13 09:26	01/12/14 11:00		
<b>Surrogates</b>								
n-Triacontane (S)	85	%	53-125	1	12/30/13 09:26	01/12/14 11:00	638-68-6	
<b>8260 VOC</b>	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		12/31/13 20:34	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/31/13 20:34	107-05-1	
Benzene	ND	ug/L	1.0	1		12/31/13 20:34	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/31/13 20:34	108-86-1	
Bromoform	ND	ug/L	1.0	1		12/31/13 20:34	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		12/31/13 20:34	75-27-4	L3
Bromodichloromethane	ND	ug/L	1.0	1		12/31/13 20:34	75-25-2	
Bromoform	ND	ug/L	4.0	1		12/31/13 20:34	74-83-9	
Bromomethane	ND	ug/L	4.0	1		12/31/13 20:34	12/31/13 20:34	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/31/13 20:34	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/31/13 20:34	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/31/13 20:34	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/31/13 20:34	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/31/13 20:34	56-23-5	L3
Chlorobenzene	ND	ug/L	1.0	1		12/31/13 20:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/31/13 20:34	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/31/13 20:34	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/31/13 20:34	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/31/13 20:34	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/31/13 20:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/31/13 20:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/31/13 20:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/31/13 20:34	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/31/13 20:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/31/13 20:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/31/13 20:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/31/13 20:34	106-46-7	
Dichlorodifluoromethane	2.0	ug/L	1.0	1		12/31/13 20:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/31/13 20:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/13 20:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/31/13 20:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/13 20:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/13 20:34	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/31/13 20:34	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/31/13 20:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/31/13 20:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/31/13 20:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/31/13 20:34	563-58-6	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV  
Pace Project No.: 10253658

Sample: WH-SW-GP-5	Lab ID: 10253658003	Collected: 12/27/13 09:20	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 VOC</b>	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND ug/L		4.0	1		12/31/13 20:34	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		12/31/13 20:34	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		12/31/13 20:34	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		12/31/13 20:34	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		12/31/13 20:34	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		12/31/13 20:34	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		12/31/13 20:34	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		12/31/13 20:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/31/13 20:34	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		12/31/13 20:34	1634-04-4	
Naphthalene	ND ug/L		4.0	1		12/31/13 20:34	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		12/31/13 20:34	103-65-1	
Styrene	ND ug/L		1.0	1		12/31/13 20:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/31/13 20:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		12/31/13 20:34	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/31/13 20:34	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		12/31/13 20:34	109-99-9	
Toluene	ND ug/L		1.0	1		12/31/13 20:34	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		12/31/13 20:34	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		12/31/13 20:34	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/31/13 20:34	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/31/13 20:34	79-00-5	
Trichloroethene	ND ug/L		0.40	1		12/31/13 20:34	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/31/13 20:34	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		12/31/13 20:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		12/31/13 20:34	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		12/31/13 20:34	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		12/31/13 20:34	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		12/31/13 20:34	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		12/31/13 20:34	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103 %.		75-125	1		12/31/13 20:34	17060-07-0	1M,HS
Toluene-d8 (S)	93 %.		75-125	1		12/31/13 20:34	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125	1		12/31/13 20:34	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Sample: WH-SW-GP-5-FD	Lab ID: 10253658004	Collected: 12/27/13 09:20	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	210	ug/L	107	1	12/30/13 09:26	01/02/14 11:25		
<b>Surrogates</b>								
n-Triacontane (S)	96	%.	50-150	1	12/30/13 09:26	01/02/14 11:25	638-68-6	
<b>WIDRO GCS Silica Gel</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	ND	mg/L	0.11	1	12/30/13 09:26	01/12/14 11:07		
<b>Surrogates</b>								
n-Triacontane (S)	96	%.	53-125	1	12/30/13 09:26	01/12/14 11:07	638-68-6	
<b>8260 VOC</b>	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		12/31/13 20:58	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/31/13 20:58	107-05-1	
Benzene	ND	ug/L	1.0	1		12/31/13 20:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/31/13 20:58	108-86-1	
Bromoform	ND	ug/L	1.0	1		12/31/13 20:58	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		12/31/13 20:58	75-27-4	L3
Bromodichloromethane	ND	ug/L	1.0	1		12/31/13 20:58	75-25-2	
Bromoform	ND	ug/L	4.0	1		12/31/13 20:58	74-83-9	
Bromomethane	ND	ug/L	4.0	1		12/31/13 20:58	12/31/13 20:58	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/31/13 20:58	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/31/13 20:58	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/31/13 20:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/31/13 20:58	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/31/13 20:58	56-23-5	L3
Chlorobenzene	ND	ug/L	1.0	1		12/31/13 20:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/31/13 20:58	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/31/13 20:58	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/31/13 20:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/31/13 20:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/31/13 20:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/31/13 20:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/31/13 20:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/31/13 20:58	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/31/13 20:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/31/13 20:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/31/13 20:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/31/13 20:58	106-46-7	
Dichlorodifluoromethane	1.9	ug/L	1.0	1		12/31/13 20:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/31/13 20:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/13 20:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/31/13 20:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/13 20:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/13 20:58	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/31/13 20:58	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/31/13 20:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/31/13 20:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/31/13 20:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/31/13 20:58	563-58-6	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Sample: WH-SW-GP-5-FD	Lab ID: 10253658004	Collected: 12/27/13 09:20	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 VOC</b>	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND ug/L		4.0	1		12/31/13 20:58	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		12/31/13 20:58	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		12/31/13 20:58	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		12/31/13 20:58	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		12/31/13 20:58	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		12/31/13 20:58	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		12/31/13 20:58	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		12/31/13 20:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/31/13 20:58	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		12/31/13 20:58	1634-04-4	
Naphthalene	ND ug/L		4.0	1		12/31/13 20:58	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		12/31/13 20:58	103-65-1	
Styrene	ND ug/L		1.0	1		12/31/13 20:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/31/13 20:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		12/31/13 20:58	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/31/13 20:58	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		12/31/13 20:58	109-99-9	
Toluene	ND ug/L		1.0	1		12/31/13 20:58	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		12/31/13 20:58	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		12/31/13 20:58	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/31/13 20:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/31/13 20:58	79-00-5	
Trichloroethene	ND ug/L		0.40	1		12/31/13 20:58	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/31/13 20:58	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		12/31/13 20:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		12/31/13 20:58	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		12/31/13 20:58	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		12/31/13 20:58	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		12/31/13 20:58	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		12/31/13 20:58	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	104 %.		75-125	1		12/31/13 20:58	17060-07-0	1M
Toluene-d8 (S)	92 %.		75-125	1		12/31/13 20:58	2037-26-5	
4-Bromofluorobenzene (S)	99 %.		75-125	1		12/31/13 20:58	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Sample: WH-SW-GP-7	Lab ID: 10253658005	Collected: 12/26/13 09:50	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	278	ug/L	109	1	12/30/13 09:26	01/02/14 13:31		
<b>Surrogates</b>								
n-Triacontane (S)	95 %.		50-150	1	12/30/13 09:26	01/02/14 13:31	638-68-6	
<b>WIDRO GCS Silica Gel</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	ND	mg/L	0.11	1	12/30/13 09:26	01/12/14 11:14		
<b>Surrogates</b>								
n-Triacontane (S)	87 %.		53-125	1	12/30/13 09:26	01/12/14 11:14	638-68-6	
<b>8260 VOC</b>	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		12/31/13 21:22	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/31/13 21:22	107-05-1	
Benzene	ND	ug/L	1.0	1		12/31/13 21:22	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/31/13 21:22	108-86-1	
Bromoform	ND	ug/L	1.0	1		12/31/13 21:22	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		12/31/13 21:22	75-27-4	L3
Bromodichloromethane	ND	ug/L	1.0	1		12/31/13 21:22	75-25-2	
Bromoform	ND	ug/L	4.0	1		12/31/13 21:22	74-83-9	
Bromomethane	ND	ug/L	4.0	1		12/31/13 21:22	12/31/13 21:22	
2-Butanone (MEK)	ND	ug/L	5.0	1		78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		12/31/13 21:22	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/31/13 21:22	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/31/13 21:22	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/31/13 21:22	56-23-5	L3
Chlorobenzene	ND	ug/L	1.0	1		12/31/13 21:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/31/13 21:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/31/13 21:22	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/31/13 21:22	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/31/13 21:22	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/31/13 21:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/31/13 21:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/31/13 21:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/31/13 21:22	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/31/13 21:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/31/13 21:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/31/13 21:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/31/13 21:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/31/13 21:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/31/13 21:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/13 21:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/31/13 21:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/13 21:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/13 21:22	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/31/13 21:22	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/31/13 21:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/31/13 21:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/31/13 21:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/31/13 21:22	563-58-6	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Sample: WH-SW-GP-7	Lab ID: 10253658005	Collected: 12/26/13 09:50	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 VOC</b>	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND ug/L		4.0	1		12/31/13 21:22	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		12/31/13 21:22	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		12/31/13 21:22	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		12/31/13 21:22	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		12/31/13 21:22	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		12/31/13 21:22	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		12/31/13 21:22	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		12/31/13 21:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/31/13 21:22	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		12/31/13 21:22	1634-04-4	
Naphthalene	ND ug/L		4.0	1		12/31/13 21:22	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		12/31/13 21:22	103-65-1	
Styrene	ND ug/L		1.0	1		12/31/13 21:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/31/13 21:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		12/31/13 21:22	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/31/13 21:22	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		12/31/13 21:22	109-99-9	
Toluene	ND ug/L		1.0	1		12/31/13 21:22	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		12/31/13 21:22	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		12/31/13 21:22	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/31/13 21:22	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/31/13 21:22	79-00-5	
Trichloroethene	ND ug/L		0.40	1		12/31/13 21:22	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/31/13 21:22	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		12/31/13 21:22	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		12/31/13 21:22	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		12/31/13 21:22	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		12/31/13 21:22	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		12/31/13 21:22	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		12/31/13 21:22	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102 %.		75-125	1		12/31/13 21:22	17060-07-0	
Toluene-d8 (S)	92 %.		75-125	1		12/31/13 21:22	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125	1		12/31/13 21:22	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Sample: WH-SW-GP-9	Lab ID: 10253658006	Collected: 12/26/13 11:15	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	145	ug/L	111	1	12/30/13 09:26	01/02/14 11:11		
<b>Surrogates</b>								
n-Triacontane (S)	104	%	50-150	1	12/30/13 09:26	01/02/14 11:11	638-68-6	
<b>WIDRO GCS Silica Gel</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	ND	mg/L	0.11	1	12/30/13 09:26	01/12/14 11:21		
<b>Surrogates</b>								
n-Triacontane (S)	102	%	53-125	1	12/30/13 09:26	01/12/14 11:21	638-68-6	
<b>8260 VOC</b>	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	50		12/31/13 21:46	67-64-1	
Allyl chloride	ND	ug/L	200	50		12/31/13 21:46	107-05-1	
Benzene	ND	ug/L	50.0	50		12/31/13 21:46	71-43-2	
Bromobenzene	ND	ug/L	50.0	50		12/31/13 21:46	108-86-1	
Bromoform	ND	ug/L	50.0	50		12/31/13 21:46	74-97-5	
Bromochloromethane	ND	ug/L	50.0	50		12/31/13 21:46	75-27-4	L3
Bromodichloromethane	ND	ug/L	50.0	50		12/31/13 21:46	75-25-2	
Bromoform	ND	ug/L	200	50		12/31/13 21:46	74-83-9	
Bromomethane	ND	ug/L	250	50		12/31/13 21:46	78-93-3	
2-Butanone (MEK)	ND	ug/L	50.0	50		12/31/13 21:46	104-51-8	
n-Butylbenzene	ND	ug/L	50.0	50		12/31/13 21:46	135-98-8	
sec-Butylbenzene	ND	ug/L	50.0	50		12/31/13 21:46	98-06-6	
tert-Butylbenzene	ND	ug/L	50.0	50		12/31/13 21:46	56-23-5	L3
Carbon tetrachloride	ND	ug/L	50.0	50		12/31/13 21:46	108-90-7	
Chlorobenzene	ND	ug/L	50.0	50		12/31/13 21:46	75-00-3	
Chloroethane	ND	ug/L	50.0	50		12/31/13 21:46	67-66-3	
Chloroform	ND	ug/L	50.0	50		12/31/13 21:46	74-87-3	
Chloromethane	ND	ug/L	200	50		12/31/13 21:46	95-49-8	
2-Chlorotoluene	ND	ug/L	50.0	50		12/31/13 21:46	106-93-4	
4-Chlorotoluene	ND	ug/L	50.0	50		12/31/13 21:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	200	50		12/31/13 21:46	96-12-8	
Dibromochloromethane	ND	ug/L	50.0	50		12/31/13 21:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		12/31/13 21:46	106-46-7	
Dibromomethane	ND	ug/L	200	50		12/31/13 21:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	50		12/31/13 21:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	50.0	50		12/31/13 21:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	50.0	50		12/31/13 21:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	50.0	50		12/31/13 21:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	50		12/31/13 21:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		12/31/13 21:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	50		12/31/13 21:46	75-35-4	
cis-1,2-Dichloroethene	66.2	ug/L	50.0	50		12/31/13 21:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		12/31/13 21:46	156-60-5	
Dichlorofluoromethane	ND	ug/L	50.0	50		12/31/13 21:46	75-43-4	
1,2-Dichloropropane	ND	ug/L	200	50		12/31/13 21:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	50.0	50		12/31/13 21:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	50		12/31/13 21:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	50.0	50		12/31/13 21:46	563-58-6	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Sample: WH-SW-GP-9	Lab ID: 10253658006	Collected: 12/26/13 11:15	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 VOC</b>	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND ug/L		200	50		12/31/13 21:46	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	50		12/31/13 21:46	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		200	50		12/31/13 21:46	60-29-7	
Ethylbenzene	ND ug/L		50.0	50		12/31/13 21:46	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		50.0	50		12/31/13 21:46	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		50.0	50		12/31/13 21:46	98-82-8	
p-Isopropyltoluene	ND ug/L		50.0	50		12/31/13 21:46	99-87-6	
Methylene Chloride	ND ug/L		200	50		12/31/13 21:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		250	50		12/31/13 21:46	108-10-1	
Methyl-tert-butyl ether	ND ug/L		50.0	50		12/31/13 21:46	1634-04-4	
Naphthalene	ND ug/L		200	50		12/31/13 21:46	91-20-3	
n-Propylbenzene	ND ug/L		50.0	50		12/31/13 21:46	103-65-1	
Styrene	ND ug/L		50.0	50		12/31/13 21:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		50.0	50		12/31/13 21:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		50.0	50		12/31/13 21:46	79-34-5	
Tetrachloroethene	ND ug/L		50.0	50		12/31/13 21:46	127-18-4	
Tetrahydrofuran	ND ug/L		500	50		12/31/13 21:46	109-99-9	
Toluene	ND ug/L		50.0	50		12/31/13 21:46	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		50.0	50		12/31/13 21:46	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		50.0	50		12/31/13 21:46	120-82-1	
1,1,1-Trichloroethane	ND ug/L		50.0	50		12/31/13 21:46	71-55-6	
1,1,2-Trichloroethane	ND ug/L		50.0	50		12/31/13 21:46	79-00-5	
Trichloroethene	ND ug/L		20.0	50		12/31/13 21:46	79-01-6	
Trichlorofluoromethane	ND ug/L		50.0	50		12/31/13 21:46	75-69-4	
1,2,3-Trichloropropane	ND ug/L		200	50		12/31/13 21:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		50.0	50		12/31/13 21:46	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		50.0	50		12/31/13 21:46	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		50.0	50		12/31/13 21:46	108-67-8	
Vinyl chloride	ND ug/L		20.0	50		12/31/13 21:46	75-01-4	
Xylene (Total)	ND ug/L		150	50		12/31/13 21:46	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103 %.		75-125	50		12/31/13 21:46	17060-07-0	1M,HS
Toluene-d8 (S)	92 %.		75-125	50		12/31/13 21:46	2037-26-5	
4-Bromofluorobenzene (S)	100 %.		75-125	50		12/31/13 21:46	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Sample: WH-SW-GP-12	Lab ID: 10253658007	Collected: 12/26/13 15:05	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO GCS</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	<b>1560</b> ug/L		124	1	12/30/13 09:26	01/02/14 13:03		T6
<b>Surrogates</b>								
n-Triacontane (S)	93 %.		50-150	1	12/30/13 09:26	01/02/14 13:03	638-68-6	
<b>WIDRO GCS Silica Gel</b>	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	<b>0.28</b> mg/L		0.12	1	12/30/13 09:26	01/12/14 10:25		M1
<b>Surrogates</b>								
n-Triacontane (S)	81 %.		53-125	1	12/30/13 09:26	01/12/14 10:25	638-68-6	
<b>8260 VOC</b>	Analytical Method: EPA 8260							
Acetone	<b>31.9</b> ug/L		20.0	1		12/31/13 20:10	67-64-1	
Allyl chloride	ND ug/L		4.0	1		12/31/13 20:10	107-05-1	
Benzene	ND ug/L		1.0	1		12/31/13 20:10	71-43-2	
Bromobenzene	ND ug/L		1.0	1		12/31/13 20:10	108-86-1	
Bromoform	ND ug/L		1.0	1		12/31/13 20:10	74-97-5	
Bromochloromethane	ND ug/L		1.0	1		12/31/13 20:10	75-27-4	L3,M0
Bromodichloromethane	ND ug/L		1.0	1		12/31/13 20:10	75-25-2	
Bromoform	ND ug/L		4.0	1		12/31/13 20:10	74-83-9	
Bromomethane	ND ug/L		4.0	1		12/31/13 20:10	12/31/13 20:10	
2-Butanone (MEK)	<b>5.6</b> ug/L		5.0	1		12/31/13 20:10	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		12/31/13 20:10	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		12/31/13 20:10	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		12/31/13 20:10	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		12/31/13 20:10	56-23-5	L3
Chlorobenzene	ND ug/L		1.0	1		12/31/13 20:10	108-90-7	
Chloroethane	ND ug/L		1.0	1		12/31/13 20:10	75-00-3	
Chloroform	ND ug/L		1.0	1		12/31/13 20:10	67-66-3	
Chloromethane	ND ug/L		4.0	1		12/31/13 20:10	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		12/31/13 20:10	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		12/31/13 20:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		12/31/13 20:10	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		12/31/13 20:10	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/31/13 20:10	106-93-4	
Dibromomethane	ND ug/L		4.0	1		12/31/13 20:10	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		12/31/13 20:10	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		12/31/13 20:10	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		12/31/13 20:10	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		12/31/13 20:10	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		12/31/13 20:10	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/31/13 20:10	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		12/31/13 20:10	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/31/13 20:10	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/31/13 20:10	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		12/31/13 20:10	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		12/31/13 20:10	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		12/31/13 20:10	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		12/31/13 20:10	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		12/31/13 20:10	563-58-6	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Sample: WH-SW-GP-12	Lab ID: 10253658007	Collected: 12/26/13 15:05	Received: 12/27/13 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 VOC</b>	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND ug/L		4.0	1		12/31/13 20:10	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		12/31/13 20:10	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		12/31/13 20:10	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		12/31/13 20:10	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		12/31/13 20:10	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		12/31/13 20:10	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		12/31/13 20:10	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		12/31/13 20:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/31/13 20:10	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		12/31/13 20:10	1634-04-4	
Naphthalene	<b>6.2</b> ug/L		4.0	1		12/31/13 20:10	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		12/31/13 20:10	103-65-1	
Styrene	ND ug/L		1.0	1		12/31/13 20:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/31/13 20:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		12/31/13 20:10	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/31/13 20:10	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		12/31/13 20:10	109-99-9	
Toluene	ND ug/L		1.0	1		12/31/13 20:10	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		12/31/13 20:10	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		12/31/13 20:10	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/31/13 20:10	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/31/13 20:10	79-00-5	
Trichloroethene	ND ug/L		0.40	1		12/31/13 20:10	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/31/13 20:10	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		12/31/13 20:10	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		12/31/13 20:10	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		12/31/13 20:10	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		12/31/13 20:10	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		12/31/13 20:10	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		12/31/13 20:10	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102 %.		75-125	1		12/31/13 20:10	17060-07-0	2M,HS
Toluene-d8 (S)	92 %.		75-125	1		12/31/13 20:10	2037-26-5	
4-Bromofluorobenzene (S)	102 %.		75-125	1		12/31/13 20:10	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

QC Batch:	MSV/26064	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 465 W
Associated Lab Samples:	10253658003, 10253658004, 10253658005, 10253658006, 10253658007		

METHOD BLANK: 1603466 Matrix: Water

Associated Lab Samples: 10253658003, 10253658004, 10253658005, 10253658006, 10253658007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/31/13 14:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/31/13 14:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/31/13 14:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/31/13 14:11	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	12/31/13 14:11	
1,1-Dichloroethane	ug/L	ND	1.0	12/31/13 14:11	
1,1-Dichloroethene	ug/L	ND	1.0	12/31/13 14:11	
1,1-Dichloropropene	ug/L	ND	1.0	12/31/13 14:11	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/31/13 14:11	
1,2,3-Trichloropropane	ug/L	ND	4.0	12/31/13 14:11	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/31/13 14:11	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	12/31/13 14:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	12/31/13 14:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/31/13 14:11	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/31/13 14:11	
1,2-Dichloroethane	ug/L	ND	1.0	12/31/13 14:11	
1,2-Dichloropropane	ug/L	ND	4.0	12/31/13 14:11	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	12/31/13 14:11	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/31/13 14:11	
1,3-Dichloropropane	ug/L	ND	1.0	12/31/13 14:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/31/13 14:11	
2,2-Dichloropropane	ug/L	ND	4.0	12/31/13 14:11	
2-Butanone (MEK)	ug/L	ND	5.0	12/31/13 14:11	
2-Chlorotoluene	ug/L	ND	1.0	12/31/13 14:11	
4-Chlorotoluene	ug/L	ND	1.0	12/31/13 14:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/31/13 14:11	
Acetone	ug/L	ND	20.0	12/31/13 14:11	
Allyl chloride	ug/L	ND	4.0	12/31/13 14:11	
Benzene	ug/L	ND	1.0	12/31/13 14:11	
Bromobenzene	ug/L	ND	1.0	12/31/13 14:11	
Bromochloromethane	ug/L	ND	1.0	12/31/13 14:11	
Bromodichloromethane	ug/L	ND	1.0	12/31/13 14:11	
Bromoform	ug/L	ND	4.0	12/31/13 14:11	
Bromomethane	ug/L	ND	4.0	12/31/13 14:11	
Carbon tetrachloride	ug/L	ND	1.0	12/31/13 14:11	
Chlorobenzene	ug/L	ND	1.0	12/31/13 14:11	
Chloroethane	ug/L	ND	1.0	12/31/13 14:11	
Chloroform	ug/L	ND	1.0	12/31/13 14:11	
Chloromethane	ug/L	ND	4.0	12/31/13 14:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/31/13 14:11	
cis-1,3-Dichloropropene	ug/L	ND	4.0	12/31/13 14:11	
Dibromochloromethane	ug/L	ND	1.0	12/31/13 14:11	
Dibromomethane	ug/L	ND	4.0	12/31/13 14:11	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

METHOD BLANK: 1603466

Matrix: Water

Associated Lab Samples: 10253658003, 10253658004, 10253658005, 10253658006, 10253658007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	12/31/13 14:11	
Dichlorofluoromethane	ug/L	ND	1.0	12/31/13 14:11	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	12/31/13 14:11	
Ethylbenzene	ug/L	ND	1.0	12/31/13 14:11	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/31/13 14:11	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/31/13 14:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/31/13 14:11	
Methylene Chloride	ug/L	ND	4.0	12/31/13 14:11	
n-Butylbenzene	ug/L	ND	1.0	12/31/13 14:11	
n-Propylbenzene	ug/L	ND	1.0	12/31/13 14:11	
Naphthalene	ug/L	ND	4.0	12/31/13 14:11	
p-Isopropyltoluene	ug/L	ND	1.0	12/31/13 14:11	
sec-Butylbenzene	ug/L	ND	1.0	12/31/13 14:11	
Styrene	ug/L	ND	1.0	12/31/13 14:11	
tert-Butylbenzene	ug/L	ND	1.0	12/31/13 14:11	
Tetrachloroethene	ug/L	ND	1.0	12/31/13 14:11	
Tetrahydrofuran	ug/L	ND	10.0	12/31/13 14:11	
Toluene	ug/L	ND	1.0	12/31/13 14:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/31/13 14:11	
trans-1,3-Dichloropropene	ug/L	ND	4.0	12/31/13 14:11	
Trichloroethene	ug/L	ND	0.40	12/31/13 14:11	
Trichlorofluoromethane	ug/L	ND	1.0	12/31/13 14:11	
Vinyl chloride	ug/L	ND	0.40	12/31/13 14:11	
Xylene (Total)	ug/L	ND	3.0	12/31/13 14:11	
1,2-Dichloroethane-d4 (S)	%.	101	75-125	12/31/13 14:11	
4-Bromofluorobenzene (S)	%.	100	75-125	12/31/13 14:11	
Toluene-d8 (S)	%.	95	75-125	12/31/13 14:11	

LABORATORY CONTROL SAMPLE: 1603467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.6	103	75-125	
1,1,1-Trichloroethane	ug/L	20	24.0	120	75-126	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	75-125	
1,1,2-Trichloroethane	ug/L	20	21.3	106	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.0	105	51-139	
1,1-Dichloroethane	ug/L	20	23.8	119	75-125	
1,1-Dichloroethene	ug/L	20	22.2	111	71-126	
1,1-Dichloropropene	ug/L	20	23.4	117	74-125	
1,2,3-Trichlorobenzene	ug/L	20	18.6	93	75-125	
1,2,3-Trichloropropane	ug/L	20	17.8	89	75-125	
1,2,4-Trichlorobenzene	ug/L	20	18.1	90	75-125	
1,2,4-Trimethylbenzene	ug/L	20	18.9	94	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	48.8	98	73-125	
1,2-Dibromoethane (EDB)	ug/L	20	21.4	107	75-125	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

**LABORATORY CONTROL SAMPLE: 1603467**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	18.8	94	75-125	
1,2-Dichloroethane	ug/L	20	22.3	111	74-125	
1,2-Dichloropropane	ug/L	20	22.9	115	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.8	94	75-125	
1,3-Dichlorobenzene	ug/L	20	18.4	92	75-125	
1,3-Dichloropropane	ug/L	20	20.0	100	75-125	
1,4-Dichlorobenzene	ug/L	20	18.2	91	75-125	
2,2-Dichloropropane	ug/L	20	24.6	123	67-132	
2-Butanone (MEK)	ug/L	100	104	104	68-126	
2-Chlorotoluene	ug/L	20	18.9	95	74-125	
4-Chlorotoluene	ug/L	20	19.1	96	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.6	100	72-125	
Acetone	ug/L	100	108	108	69-132	
Allyl chloride	ug/L	20	23.3	117	74-125	
Benzene	ug/L	20	21.3	107	75-125	
Bromobenzene	ug/L	20	18.7	93	75-125	
Bromochloromethane	ug/L	20	23.1	115	75-125	
Bromodichloromethane	ug/L	20	26.1	131	75-125 L0	
Bromoform	ug/L	20	24.0	120	75-126	
Bromomethane	ug/L	20	16.4	82	30-150	
Carbon tetrachloride	ug/L	20	26.3	132	74-127 L0	
Chlorobenzene	ug/L	20	19.5	97	75-125	
Chloroethane	ug/L	20	26.0	130	68-132	
Chloroform	ug/L	20	23.2	116	75-125	
Chloromethane	ug/L	20	23.0	115	61-129	
cis-1,2-Dichloroethene	ug/L	20	21.8	109	75-125	
cis-1,3-Dichloropropene	ug/L	20	22.5	112	75-125	
Dibromochloromethane	ug/L	20	22.3	111	75-125	
Dibromomethane	ug/L	20	21.2	106	75-125	
Dichlorodifluoromethane	ug/L	20	19.7	99	49-137	
Dichlorofluoromethane	ug/L	20	24.6	123	66-133	
Diethyl ether (Ethyl ether)	ug/L	20	22.2	111	75-125	
Ethylbenzene	ug/L	20	19.4	97	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.9	99	69-127	
Isopropylbenzene (Cumene)	ug/L	20	20.4	102	75-125	
Methyl-tert-butyl ether	ug/L	20	21.2	106	74-126	
Methylene Chloride	ug/L	20	22.3	112	75-125	
n-Butylbenzene	ug/L	20	19.6	98	72-126	
n-Propylbenzene	ug/L	20	18.9	94	73-125	
Naphthalene	ug/L	20	18.1	90	75-125	
p-Isopropyltoluene	ug/L	20	19.5	97	74-125	
sec-Butylbenzene	ug/L	20	19.8	99	73-125	
Styrene	ug/L	20	19.9	100	75-125	
tert-Butylbenzene	ug/L	20	19.0	95	73-125	
Tetrachloroethene	ug/L	20	20.1	101	75-125	
Tetrahydrofuran	ug/L	200	210	105	71-125	
Toluene	ug/L	20	19.2	96	75-125	
trans-1,2-Dichloroethene	ug/L	20	23.4	117	74-125	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

**LABORATORY CONTROL SAMPLE:** 1603467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	21.4	107	75-125	
Trichloroethene	ug/L	20	21.7	109	75-125	
Trichlorofluoromethane	ug/L	20	23.4	117	69-129	
Vinyl chloride	ug/L	20	23.6	118	70-128	
Xylene (Total)	ug/L	60	59.7	100	75-125	
1,2-Dichloroethane-d4 (S)	%.			97	75-125	
4-Bromofluorobenzene (S)	%.			100	75-125	
Toluene-d8 (S)	%.			99	75-125	

**MATRIX SPIKE & MATRIX SPIKE DUPLICATE:** 1603468      1603469

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD Qual
		10253658007	Result	Spike Conc.	Spike Conc.							
1,1,1,2-Tetrachloroethane	ug/L	ND	40	40	41.9	42.5	105	106	75-125	1	30	
1,1,1-Trichloroethane	ug/L	ND	40	40	49.4	49.4	123	124	75-136	.07	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	40	40	45.2	45.4	113	114	66-131	.5	30	
1,1,2-Trichloroethane	ug/L	ND	40	40	43.3	43.3	108	108	75-125	.2	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	40	40	57.4	60.1	144	150	75-150	5	30	
1,1-Dichloroethane	ug/L	ND	40	40	48.0	48.7	120	122	75-131	2	30	
1,1-Dichloroethene	ug/L	ND	40	40	46.1	47.1	115	118	75-138	2	30	
1,1-Dichloropropene	ug/L	ND	40	40	48.6	48.3	122	121	75-136	.7	30	
1,2,3-Trichlorobenzene	ug/L	ND	40	40	34.0	34.2	85	85	75-125	.6	30	
1,2,3-Trichloropropane	ug/L	ND	40	40	41.3	41.5	103	104	71-126	.5	30	
1,2,4-Trichlorobenzene	ug/L	ND	40	40	33.3	33.7	83	84	75-125	1	30	
1,2,4-Trimethylbenzene	ug/L	ND	40	40	36.0	36.6	90	91	70-126	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	111	108	111	108	69-127	2	30	
1,2-Dibromoethane (EDB)	ug/L	ND	40	40	44.0	44.0	110	110	75-125	.05	30	
1,2-Dichlorobenzene	ug/L	ND	40	40	37.4	37.3	94	93	75-125	.2	30	
1,2-Dichloroethane	ug/L	ND	40	40	46.4	46.0	116	115	74-128	.8	30	
1,2-Dichloropropane	ug/L	ND	40	40	46.6	47.1	116	118	75-125	1	30	
1,3,5-Trimethylbenzene	ug/L	ND	40	40	35.2	35.7	88	89	72-126	1	30	
1,3-Dichlorobenzene	ug/L	ND	40	40	35.9	36.7	90	92	75-125	2	30	
1,3-Dichloropropane	ug/L	ND	40	40	41.4	41.1	103	103	75-125	.7	30	
1,4-Dichlorobenzene	ug/L	ND	40	40	35.7	36.4	89	91	75-125	2	30	
2,2-Dichloropropane	ug/L	ND	40	40	39.0	39.1	97	98	71-143	.4	30	
2-Butanone (MEK)	ug/L	5.6	200	200	256	239	125	117	64-125	7	30	
2-Chlorotoluene	ug/L	ND	40	40	36.9	37.4	92	94	74-125	1	30	
4-Chlorotoluene	ug/L	ND	40	40	36.7	38.4	92	96	75-125	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	200	200	241	236	119	116	69-125	2	30	
Acetone	ug/L	31.9	200	200	289	277	129	122	57-135	4	30	
Allyl chloride	ug/L	ND	40	40	45.4	45.6	114	114	73-134	.4	30	
Benzene	ug/L	ND	40	40	44.6	45.6	110	113	70-135	2	30	
Bromobenzene	ug/L	ND	40	40	38.1	39.2	95	98	75-125	3	30	
Bromochloromethane	ug/L	ND	40	40	47.2	47.8	118	120	75-125	1	30	
Bromodichloromethane	ug/L	ND	40	40	52.4	52.6	131	131	75-125	.4	30	M0
Bromoform	ug/L	ND	40	40	48.4	48.1	121	120	68-133	.6	30	
Bromomethane	ug/L	ND	40	40	35.1	29.5	88	74	56-150	17	30	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1603468 1603469															
	Units	Result	MS Spike		MSD Spike		MS		MSD		MS % Rec		MSD % Rec		% Rec		Max	
			Conc.		Conc.		Result		Result		% Rec		Result		Limits	RPD	RPD	Qual
Carbon tetrachloride	ug/L	ND	40	40	52.7	53.5	132	134	75-137	1	30							
Chlorobenzene	ug/L	ND	40	40	38.9	40.1	97	100	75-125	3	30							
Chloroethane	ug/L	ND	40	40	51.9	55.6	130	139	64-150	7	30							
Chloroform	ug/L	ND	40	40	47.9	47.8	120	120	75-127	.1	30							
Chloromethane	ug/L	ND	40	40	49.0	50.9	122	127	65-140	4	30							
cis-1,2-Dichloroethene	ug/L	ND	40	40	45.0	47.8	112	120	75-129	6	30							
cis-1,3-Dichloropropene	ug/L	ND	40	40	42.8	42.4	107	106	75-125	.9	30							
Dibromochloromethane	ug/L	ND	40	40	44.6	45.6	112	114	75-125	2	30							
Dibromomethane	ug/L	ND	40	40	44.0	43.7	110	109	75-125	.7	30							
Dichlorodifluoromethane	ug/L	ND	40	40	53.2	56.0	133	140	70-150	5	30							
Dichlorofluoromethane	ug/L	ND	40	40	50.0	51.9	125	130	69-142	4	30							
Diethyl ether (Ethyl ether)	ug/L	ND	40	40	48.9	48.9	120	120	75-125	.1	30							
Ethylbenzene	ug/L	ND	40	40	38.5	39.5	96	98	75-125	2	30							
Hexachloro-1,3-butadiene	ug/L	ND	40	40	30.9	30.2	77	75	75-135	2	30							
Isopropylbenzene (Cumene)	ug/L	ND	40	40	38.1	39.1	95	98	75-125	3	30							
Methyl-tert-butyl ether	ug/L	ND	40	40	45.4	44.3	113	111	70-132	2	30							
Methylene Chloride	ug/L	ND	40	40	45.9	46.2	113	114	73-125	.7	30							
n-Butylbenzene	ug/L	ND	40	40	32.7	33.3	82	83	75-130	2	30							
n-Propylbenzene	ug/L	ND	40	40	35.4	36.0	88	90	75-128	2	30							
Naphthalene	ug/L	6.2	40	40	51.7	52.0	114	114	73-126	.4	30							
p-Isopropyltoluene	ug/L	ND	40	40	33.4	33.7	84	84	75-125	.9	30							
sec-Butylbenzene	ug/L	ND	40	40	33.4	34.2	83	85	75-126	2	30							
Styrene	ug/L	ND	40	40	39.3	40.2	98	101	52-137	2	30							
tert-Butylbenzene	ug/L	ND	40	40	33.7	34.1	84	85	75-125	1	30							
Tetrachloroethene	ug/L	ND	40	40	39.9	41.4	100	104	75-130	4	30							
Tetrahydrofuran	ug/L	ND	400	400	418	419	104	105	69-125	.2	30							
Toluene	ug/L	ND	40	40	39.7	40.5	98	100	75-125	2	30							
trans-1,2-Dichloroethene	ug/L	ND	40	40	45.6	46.3	114	116	75-135	2	30							
trans-1,3-Dichloropropene	ug/L	ND	40	40	39.8	40.5	100	101	75-125	2	30							
Trichloroethene	ug/L	ND	40	40	43.4	44.5	108	111	75-129	3	30							
Trichlorofluoromethane	ug/L	ND	40	40	52.1	53.4	130	134	75-150	2	30							
Vinyl chloride	ug/L	ND	40	40	50.1	50.9	125	127	75-147	2	30							
Xylene (Total)	ug/L	ND	120	120	117	118	98	98	75-125	.8	30							
1,2-Dichloroethane-d4 (S)	%.						97	95	75-125									
4-Bromofluorobenzene (S)	%.						100	101	75-125									
Toluene-d8 (S)	%.						95	95	75-125									

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

QC Batch:	MSV/26076	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 465 W
Associated Lab Samples:	10253658001, 10253658002		

METHOD BLANK: 1604459 Matrix: Water

Associated Lab Samples: 10253658001, 10253658002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/06/14 10:55	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/06/14 10:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/06/14 10:55	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/06/14 10:55	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	01/06/14 10:55	
1,1-Dichloroethane	ug/L	ND	1.0	01/06/14 10:55	
1,1-Dichloroethene	ug/L	ND	1.0	01/06/14 10:55	
1,1-Dichloropropene	ug/L	ND	1.0	01/06/14 10:55	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/06/14 10:55	
1,2,3-Trichloropropane	ug/L	ND	4.0	01/06/14 10:55	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/06/14 10:55	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	01/06/14 10:55	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	01/06/14 10:55	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/06/14 10:55	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/06/14 10:55	
1,2-Dichloroethane	ug/L	ND	1.0	01/06/14 10:55	
1,2-Dichloropropane	ug/L	ND	4.0	01/06/14 10:55	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	01/06/14 10:55	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/06/14 10:55	
1,3-Dichloropropane	ug/L	ND	1.0	01/06/14 10:55	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/06/14 10:55	
2,2-Dichloropropane	ug/L	ND	4.0	01/06/14 10:55	
2-Butanone (MEK)	ug/L	ND	5.0	01/06/14 10:55	
2-Chlorotoluene	ug/L	ND	1.0	01/06/14 10:55	
4-Chlorotoluene	ug/L	ND	1.0	01/06/14 10:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/06/14 10:55	
Acetone	ug/L	ND	20.0	01/06/14 10:55	
Allyl chloride	ug/L	ND	4.0	01/06/14 10:55	
Benzene	ug/L	ND	1.0	01/06/14 10:55	
Bromobenzene	ug/L	ND	1.0	01/06/14 10:55	
Bromochloromethane	ug/L	ND	1.0	01/06/14 10:55	
Bromodichloromethane	ug/L	ND	1.0	01/06/14 10:55	
Bromoform	ug/L	ND	4.0	01/06/14 10:55	
Bromomethane	ug/L	ND	4.0	01/06/14 10:55	
Carbon tetrachloride	ug/L	ND	1.0	01/06/14 10:55	
Chlorobenzene	ug/L	ND	1.0	01/06/14 10:55	
Chloroethane	ug/L	ND	4.0	01/06/14 10:55	
Chloroform	ug/L	ND	1.0	01/06/14 10:55	
Chloromethane	ug/L	ND	4.0	01/06/14 10:55	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/06/14 10:55	
cis-1,3-Dichloropropene	ug/L	ND	4.0	01/06/14 10:55	
Dibromochloromethane	ug/L	ND	1.0	01/06/14 10:55	
Dibromomethane	ug/L	ND	4.0	01/06/14 10:55	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

METHOD BLANK: 1604459

Matrix: Water

Associated Lab Samples: 10253658001, 10253658002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	01/06/14 10:55	
Dichlorofluoromethane	ug/L	ND	1.0	01/06/14 10:55	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	01/06/14 10:55	
Ethylbenzene	ug/L	ND	1.0	01/06/14 10:55	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/06/14 10:55	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	01/06/14 10:55	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/06/14 10:55	
Methylene Chloride	ug/L	ND	4.0	01/06/14 10:55	
n-Butylbenzene	ug/L	ND	1.0	01/06/14 10:55	
n-Propylbenzene	ug/L	ND	1.0	01/06/14 10:55	
Naphthalene	ug/L	ND	4.0	01/06/14 10:55	
p-Isopropyltoluene	ug/L	ND	1.0	01/06/14 10:55	
sec-Butylbenzene	ug/L	ND	1.0	01/06/14 10:55	
Styrene	ug/L	ND	1.0	01/06/14 10:55	
tert-Butylbenzene	ug/L	ND	1.0	01/06/14 10:55	
Tetrachloroethene	ug/L	ND	1.0	01/06/14 10:55	
Tetrahydrofuran	ug/L	ND	10.0	01/06/14 10:55	
Toluene	ug/L	ND	1.0	01/06/14 10:55	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/06/14 10:55	
trans-1,3-Dichloropropene	ug/L	ND	4.0	01/06/14 10:55	
Trichloroethene	ug/L	ND	1.0	01/06/14 10:55	
Trichlorofluoromethane	ug/L	ND	1.0	01/06/14 10:55	
Vinyl chloride	ug/L	ND	0.40	01/06/14 10:55	
Xylene (Total)	ug/L	ND	3.0	01/06/14 10:55	
1,2-Dichloroethane-d4 (S)	%.	88	75-125	01/06/14 10:55	
4-Bromofluorobenzene (S)	%.	93	75-125	01/06/14 10:55	
Toluene-d8 (S)	%.	97	75-125	01/06/14 10:55	

LABORATORY CONTROL SAMPLE: 1604460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.2	111	75-125	
1,1,1-Trichloroethane	ug/L	20	19.3	97	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	97	74-125	
1,1,2-Trichloroethane	ug/L	20	20.0	100	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.6	93	56-133	
1,1-Dichloroethane	ug/L	20	17.4	87	75-125	
1,1-Dichloroethene	ug/L	20	18.9	94	70-125	
1,1-Dichloropropene	ug/L	20	17.6	88	73-125	
1,2,3-Trichlorobenzene	ug/L	20	18.9	94	75-125	
1,2,3-Trichloropropane	ug/L	20	19.9	100	75-125	
1,2,4-Trichlorobenzene	ug/L	20	19.2	96	75-125	
1,2,4-Trimethylbenzene	ug/L	20	18.3	91	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	63.3	127	70-125 L0	
1,2-Dibromoethane (EDB)	ug/L	20	20.0	100	75-125	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

**LABORATORY CONTROL SAMPLE: 1604460**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	18.9	94	75-125	
1,2-Dichloroethane	ug/L	20	16.2	81	75-125	
1,2-Dichloropropane	ug/L	20	17.4	87	75-125	
1,3,5-Trimethylbenzene	ug/L	20	17.9	90	75-125	
1,3-Dichlorobenzene	ug/L	20	18.4	92	75-125	
1,3-Dichloropropane	ug/L	20	18.4	92	75-125	
1,4-Dichlorobenzene	ug/L	20	18.8	94	75-125	
2,2-Dichloropropane	ug/L	20	22.1	110	66-130	
2-Butanone (MEK)	ug/L	100	88.4	88	64-126	
2-Chlorotoluene	ug/L	20	17.1	86	73-125	
4-Chlorotoluene	ug/L	20	17.6	88	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.2	92	71-125	
Acetone	ug/L	100	105	105	66-131	
Allyl chloride	ug/L	20	15.4	77	70-129	
Benzene	ug/L	20	18.1	90	75-125	
Bromobenzene	ug/L	20	19.3	96	75-125	
Bromochloromethane	ug/L	20	20.4	102	75-125	
Bromodichloromethane	ug/L	20	18.7	94	75-125	
Bromoform	ug/L	20	23.2	116	70-125	
Bromomethane	ug/L	20	21.7	109	30-150	
Carbon tetrachloride	ug/L	20	21.9	109	68-129	
Chlorobenzene	ug/L	20	19.0	95	75-125	
Chloroethane	ug/L	20	18.5	92	68-133	
Chloroform	ug/L	20	18.0	90	75-125	
Chloromethane	ug/L	20	17.9	89	57-140	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	75-125	
cis-1,3-Dichloropropene	ug/L	20	19.5	98	75-125	
Dibromochloromethane	ug/L	20	22.1	110	75-125	
Dibromomethane	ug/L	20	21.8	109	75-125	
Dichlorodifluoromethane	ug/L	20	19.6	98	50-134	
Dichlorofluoromethane	ug/L	20	19.4	97	74-125	
Diethyl ether (Ethyl ether)	ug/L	20	16.1	80	75-125	
Ethylbenzene	ug/L	20	18.2	91	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.0	95	74-128	
Isopropylbenzene (Cumene)	ug/L	20	19.2	96	73-125	
Methyl-tert-butyl ether	ug/L	20	17.8	89	75-125	
Methylene Chloride	ug/L	20	18.2	91	75-125	
n-Butylbenzene	ug/L	20	17.1	86	73-125	
n-Propylbenzene	ug/L	20	17.6	88	72-125	
Naphthalene	ug/L	20	17.3	87	74-125	
p-Isopropyltoluene	ug/L	20	18.5	92	74-125	
sec-Butylbenzene	ug/L	20	17.9	90	74-125	
Styrene	ug/L	20	19.8	99	75-125	
tert-Butylbenzene	ug/L	20	18.3	91	74-125	
Tetrachloroethene	ug/L	20	20.4	102	71-125	
Tetrahydrofuran	ug/L	200	225	113	70-125	
Toluene	ug/L	20	18.2	91	75-125	
trans-1,2-Dichloroethene	ug/L	20	18.0	90	73-125	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

**LABORATORY CONTROL SAMPLE:** 1604460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	21.7	108	75-125	
Trichloroethene	ug/L	20	20.5	103	75-125	
Trichlorofluoromethane	ug/L	20	20.6	103	70-128	
Vinyl chloride	ug/L	20	19.5	97	70-130	
Xylene (Total)	ug/L	60	57.2	95	75-125	
1,2-Dichloroethane-d4 (S)	%.			86	75-125	
4-Bromofluorobenzene (S)	%.			94	75-125	
Toluene-d8 (S)	%.			99	75-125	

**MATRIX SPIKE & MATRIX SPIKE DUPLICATE:** 1604930      1604931

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		
		10253529005	Spike Conc.	Spike Conc.	Result				RPD	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	371	422	93	105	74-131	13	30
1,1,1-Trichloroethane	ug/L	ND	400	400	341	391	85	98	73-139	14	30
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	307	350	77	88	72-125	13	30
1,1,2-Trichloroethane	ug/L	ND	400	400	340	384	85	96	75-125	12	30
1,1,2-Trichlorotrifluoroethane	ug/L	ND	400	400	348	403	87	101	68-150	15	30
1,1-Dichloroethane	ug/L	ND	400	400	310	353	78	88	73-132	13	30
1,1-Dichloroethene	ug/L	ND	400	400	339	378	85	95	71-142	11	30
1,1-Dichloropropene	ug/L	ND	400	400	314	359	79	90	73-139	13	30
1,2,3-Trichlorobenzene	ug/L	ND	400	400	298	366	74	91	70-129	21	30
1,2,3-Trichloropropane	ug/L	ND	400	400	327	368	82	92	74-125	12	30
1,2,4-Trichlorobenzene	ug/L	ND	400	400	311	373	78	93	70-129	18	30
1,2,4-Trimethylbenzene	ug/L	ND	400	400	320	365	78	89	72-136	13	30
1,2-Dibromo-3-chloropropane	ug/L	ND	1000	1000	1000	1120	100	112	66-127	11	30
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	333	375	83	94	75-125	12	30
1,2-Dichlorobenzene	ug/L	ND	400	400	322	375	81	94	75-125	15	30
1,2-Dichloroethane	ug/L	ND	400	400	306	339	76	85	68-128	10	30
1,2-Dichloropropane	ug/L	ND	400	400	304	346	76	87	74-131	13	30
1,3,5-Trimethylbenzene	ug/L	ND	400	400	309	356	77	89	75-131	14	30
1,3-Dichlorobenzene	ug/L	ND	400	400	322	374	81	94	73-125	15	30
1,3-Dichloropropane	ug/L	ND	400	400	313	348	78	87	75-125	11	30
1,4-Dichlorobenzene	ug/L	ND	400	400	326	379	82	95	73-125	15	30
2,2-Dichloropropane	ug/L	ND	400	400	345	393	86	98	58-150	13	30
2-Butanone (MEK)	ug/L	ND	2000	2000	1520	1740	76	87	56-140	13	30
2-Chlorotoluene	ug/L	ND	400	400	293	336	73	84	70-130	14	30
4-Chlorotoluene	ug/L	ND	400	400	300	346	75	87	73-126	14	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	2000	2000	1450	1640	73	82	69-128	12	30
Acetone	ug/L	ND	2000	2000	1860	2090	93	104	57-143	11	30
Allyl chloride	ug/L	ND	400	400	257	301	64	75	65-146	16	30 M1
Benzene	ug/L	ND	400	400	325	371	81	93	75-129	13	30
Bromobenzene	ug/L	ND	400	400	323	372	81	93	74-125	14	30
Bromochloromethane	ug/L	ND	400	400	383	424	96	106	75-126	10	30
Bromodichloromethane	ug/L	ND	400	400	323	364	81	91	75-128	12	30
Bromoform	ug/L	ND	400	400	364	417	91	104	66-130	14	30
Bromomethane	ug/L	ND	400	400	201	252	50	63	30-150	23	30

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1604931													
	Units	Result	MS		MSD		MS	MSD	% Rec	MSD	% Rec	% Rec	Limits	Max RPD	Max RPD	Max Qual
			Spike Conc.	MS Spike Conc.	Result	MSD Result										
Carbon tetrachloride	ug/L	ND	400	400	372	438	93	109	69-148	16	30					
Chlorobenzene	ug/L	ND	400	400	324	370	81	93	75-125	13	30					
Chloroethane	ug/L	ND	400	400	528	462	132	116	71-143	13	30					
Chloroform	ug/L	ND	400	400	326	370	81	92	75-126	13	30					
Chloromethane	ug/L	ND	400	400	266	302	67	76	55-150	13	30					
cis-1,2-Dichloroethene	ug/L	33.3	400	400	385	435	88	100	75-130	12	30					
cis-1,3-Dichloropropene	ug/L	ND	400	400	326	367	82	92	72-129	12	30					
Dibromochloromethane	ug/L	ND	400	400	370	417	93	104	73-129	12	30					
Dibromomethane	ug/L	ND	400	400	387	430	97	108	75-125	10	30					
Dichlorodifluoromethane	ug/L	ND	400	400	352	409	88	102	70-150	15	30					
Dichlorofluoromethane	ug/L	ND	400	400	331	369	83	92	75-135	11	30					
Diethyl ether (Ethyl ether)	ug/L	ND	400	400	306	355	76	89	72-126	15	30					
Ethylbenzene	ug/L	ND	400	400	305	349	76	87	75-128	13	30					
Hexachloro-1,3-butadiene	ug/L	ND	400	400	272	333	68	83	65-144	20	30					
Isopropylbenzene (Cumene)	ug/L	ND	400	400	330	386	82	96	75-131	16	30					
Methyl-tert-butyl ether	ug/L	ND	400	400	334	371	84	93	74-128	10	30					
Methylene Chloride	ug/L	ND	400	400	342	389	83	95	69-125	13	30					
n-Butylbenzene	ug/L	ND	400	400	298	349	74	87	70-137	16	30					
n-Propylbenzene	ug/L	ND	400	400	295	343	74	86	72-131	15	30					
Naphthalene	ug/L	71.9J	400	400	287	337	54	66	70-132	16	30	M1				
p-Isopropyltoluene	ug/L	ND	400	400	319	374	80	94	73-133	16	30					
sec-Butylbenzene	ug/L	ND	400	400	306	355	76	89	74-133	15	30					
Styrene	ug/L	ND	400	400	339	388	85	97	75-128	14	30					
tert-Butylbenzene	ug/L	ND	400	400	312	363	78	91	74-130	15	30					
Tetrachloroethene	ug/L	2600	400	400	2800	3150	50	137	68-140	12	30	M1				
Tetrahydrofuran	ug/L	ND	4000	4000	3950	4560	99	114	65-131	14	30					
Toluene	ug/L	ND	400	400	303	348	76	87	75-129	14	30					
trans-1,2-Dichloroethene	ug/L	ND	400	400	323	374	81	93	70-136	15	30					
trans-1,3-Dichloropropene	ug/L	ND	400	400	360	404	90	101	71-125	12	30					
Trichloroethene	ug/L	133	400	400	478	542	86	102	72-135	13	30					
Trichlorofluoromethane	ug/L	ND	400	400	353	411	88	103	75-150	15	30					
Vinyl chloride	ug/L	ND	400	400	339	385	85	96	73-150	13	30					
Xylene (Total)	ug/L	ND	1200	1200	972	1110	81	93	75-129	14	30					
1,2-Dichloroethane-d4 (S)	%.						92	91	75-125							
4-Bromofluorobenzene (S)	%.						92	92	75-125							
Toluene-d8 (S)	%.						97	97	75-125							

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

QC Batch: OEXT/24040 Analysis Method: WI MOD DRO

QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS

Associated Lab Samples: 10253658001, 10253658002, 10253658003, 10253658004, 10253658005, 10253658006, 10253658007

METHOD BLANK: 1602772 Matrix: Water

Associated Lab Samples: 10253658001, 10253658002, 10253658003, 10253658004, 10253658005, 10253658006, 10253658007

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Diesel Range Organics	ug/L	ND	100	01/02/14 10:08	
n-Triacontane (S)	%	83	50-150	01/02/14 10:08	

LABORATORY CONTROL SAMPLE &amp; LCSD: 1602773 1602774

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max RPD	Qualifiers
		Conc.	Result	Result	% Rec	% Rec	Limits			
Diesel Range Organics	ug/L	2000	1770	1800	88	90	75-115	2	20	
n-Triacontane (S)	%				98	101	50-150			

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 1602775 1602776

Parameter	Units	10253658007	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec	Max		
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Diesel Range Organics	ug/L	1560	2680	2600	3930	3530	88	76	75-115	11	20	T6
n-Triacontane (S)	%						99	92	50-150			

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

QC Batch: OEXT/24105 Analysis Method: WI MOD DRO

QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS w/Cleanup

Associated Lab Samples: 10253658001, 10253658002, 10253658003, 10253658004, 10253658005, 10253658006, 10253658007

METHOD BLANK: 1606635 Matrix: Water

Associated Lab Samples: 10253658001, 10253658002, 10253658003, 10253658004, 10253658005, 10253658006, 10253658007

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Diesel Range Organics	mg/L	ND	0.10	01/12/14 10:11	
n-Triacontane (S)	%	76	53-125	01/12/14 10:11	

LABORATORY CONTROL SAMPLE &amp; LCSD: 1606636 1606637

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max RPD	Qualifiers
		Conc.	Result	Result	% Rec	% Rec	Limits			
Diesel Range Organics	mg/L	2	1.6	1.7	82	85	65-125	4	20	
n-Triacontane (S)	%				91	96	53-125			

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 1606638 1606639

Parameter	Units	10253658007	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec	Max		
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Diesel Range Organics	mg/L	0.28	2.7	2.6	2.0	1.9	64	61	70-130	6	20	M1
n-Triacontane (S)	%						78	77	53-125			

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALIFIERS

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- 1M Post-analysis pH measurement indicates insufficient VOA sample preservation. Therefore, analysis was conducted outside the recognized method holding time.
- 2M The sample was analyzed at a dilution due to a large amount of sediment in the vials. Post-analysis pH measurement indicates insufficient VOA sample preservation. Therefore, analysis was conducted outside the recognized method holding time.
- HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- T6 High boiling point hydrocarbons are present in the sample.

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 22056.06 1522 Whitaker St. REV

Pace Project No.: 10253658

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10253658001	WH-SW-GP-1	WI MOD DRO	OEXT/24040	WI MOD DRO	GCSV/12652
10253658002	WH-SW-GP-3	WI MOD DRO	OEXT/24040	WI MOD DRO	GCSV/12652
10253658003	WH-SW-GP-5	WI MOD DRO	OEXT/24040	WI MOD DRO	GCSV/12652
10253658004	WH-SW-GP-5-FD	WI MOD DRO	OEXT/24040	WI MOD DRO	GCSV/12652
10253658005	WH-SW-GP-7	WI MOD DRO	OEXT/24040	WI MOD DRO	GCSV/12652
10253658006	WH-SW-GP-9	WI MOD DRO	OEXT/24040	WI MOD DRO	GCSV/12652
10253658007	WH-SW-GP-12	WI MOD DRO	OEXT/24040	WI MOD DRO	GCSV/12652
10253658001	WH-SW-GP-1	WI MOD DRO	OEXT/24105	WI MOD DRO	GCSV/12683
10253658002	WH-SW-GP-3	WI MOD DRO	OEXT/24105	WI MOD DRO	GCSV/12683
10253658003	WH-SW-GP-5	WI MOD DRO	OEXT/24105	WI MOD DRO	GCSV/12683
10253658004	WH-SW-GP-5-FD	WI MOD DRO	OEXT/24105	WI MOD DRO	GCSV/12683
10253658005	WH-SW-GP-7	WI MOD DRO	OEXT/24105	WI MOD DRO	GCSV/12683
10253658006	WH-SW-GP-9	WI MOD DRO	OEXT/24105	WI MOD DRO	GCSV/12683
10253658007	WH-SW-GP-12	WI MOD DRO	OEXT/24105	WI MOD DRO	GCSV/12683
10253658001	WH-SW-GP-1	EPA 8260	MSV/26076		
10253658002	WH-SW-GP-3	EPA 8260	MSV/26076		
10253658003	WH-SW-GP-5	EPA 8260	MSV/26064		
10253658004	WH-SW-GP-5-FD	EPA 8260	MSV/26064		
10253658005	WH-SW-GP-7	EPA 8260	MSV/26064		
10253658006	WH-SW-GP-9	EPA 8260	MSV/26064		
10253658007	WH-SW-GP-12	EPA 8260	MSV/26064		

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10253658

## Section A

### Required Client Information:

Company: Peer Engineering  
Address: 7615 Golden Triangle Drive, Suite N  
Eden Prairie, MN 55344  
Email To: bschaepe@peerengineering.com  
Phone: (952) 831-3341 | Fax: (952) 831-4552  
Requested Due Date/TAT: Standard

## Section B

### Required Project Information:

Report To: Bruce Schaepe  
Copy To: Jeff Arndt  
jarndt@peerengineering.com  
Purchase Order No.  
Project Name: 1522 Whitaker St.  
Project Number 22056.06

## Section C

### Invoice Information:

Attention:  
Company Name: Peer Engineering  
Address:  
Pace Quote Reference:  
Pace Project Manager: Diane Anderson  
Pace Profile #:

Page: 1 Of 1

Regulatory Agency

State / Location

Minnesota

### Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID  One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left) G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test Y/N	VOC DRO	Residual Chlorine (Y/N)					
					START		END				Preservatives														
					DATE	TIME	DATE	TIME			H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other								
1	WH-SW-GP-1	WT	G		12/26/2013	1355			5			5						X X	X	10253658 001					
2	WH-SW-GP-3	WT	G		12/26/2013	1315			5			5						X X		002					
3	WH-SW-GP-5	WT	G		12/27/2013	920			5			5						X X		003					
4	WH-SW-GP-5-FD	WT	G		12/27/2013	920			5			5						X X		004					
5	WH-SW-GP-7	WT	G		12/26/2013	950			5			5						X X		005					
6	WH-SW-GP-9	WT	G		12/26/2013	1115			5			5						X X		006					
7	WH-SW-GP-12	WT	G		12/26/2013	1505		15			15							X X		007					
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Please perform MS/MSD on WH-SW-GP-12	Jeff Arndt / Peer	12/27/13	1600	CB Schaepe	12/27/13	1725	3.4 X N Y
Analysis per Ramsey County QAPP, July 19, 2013		12/27/13					0.7

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	
SIGNATURE of SAMPLER:	
Jeff Arndt	DATE Signed: 12/27/13
TEMP in C	Received on Ice (Y/N)
Custody Sealed	Cooler (Y/N)
Samples Intact	(Y/N)



Document Name:  
Sample Condition Upon Receipt Form  
Document No.:  
F-MN-L-213-rev.08

Document Revised: 07Nov2013  
Page 1 of 1  
Issuing Authority:  
Pace Minnesota Quality Office

**Sample Condition  
Upon Receipt**

**Client Name:**

**Project #:**

**WON-10253658**

Courier:  FedEx  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Tracking Number: \_\_\_\_\_

10253658

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No **Optional:** Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_ Temp Blank?  Yes  No

Thermom. Used:  80512447  B88A912167504  
 72337080  B88A9132521491 Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temp Read (°C): 3.3, 0.6 Biological Tissue Frozen?  Yes  No  N/A  
Temp should be above freezing to 6°C Correction Factor: +0.1 Date and Initials of Person Examining Contents: GB15/27/13

Comments: \_\_\_\_\_

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>LST</u>				
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>12)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Sample # _____
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water) DOC	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		Initial when completed: <u>CB</u> Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	14. <u>JLL exception sheet</u>
Trip Blank Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>120913-01</u>				

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: Bruce Schaepe

Date/Time: 12/30/13 e-mail

Comments/Resolution:

Re: Head Space + sediment. -OKed to continue

per B. Schaepe, email 12/30/13

1/9/14 Per Bruce Schaepe, add DRO Silica Gel to all samples

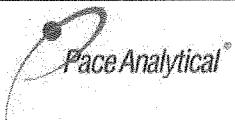
(Purchased via Pace Courier - DM)

Project Manager Review:

DM

Date: 12/30/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Document Name:  
**SCUR Exceptions Form**

Document No.:  
**F-MN-L-220-Rev.00**

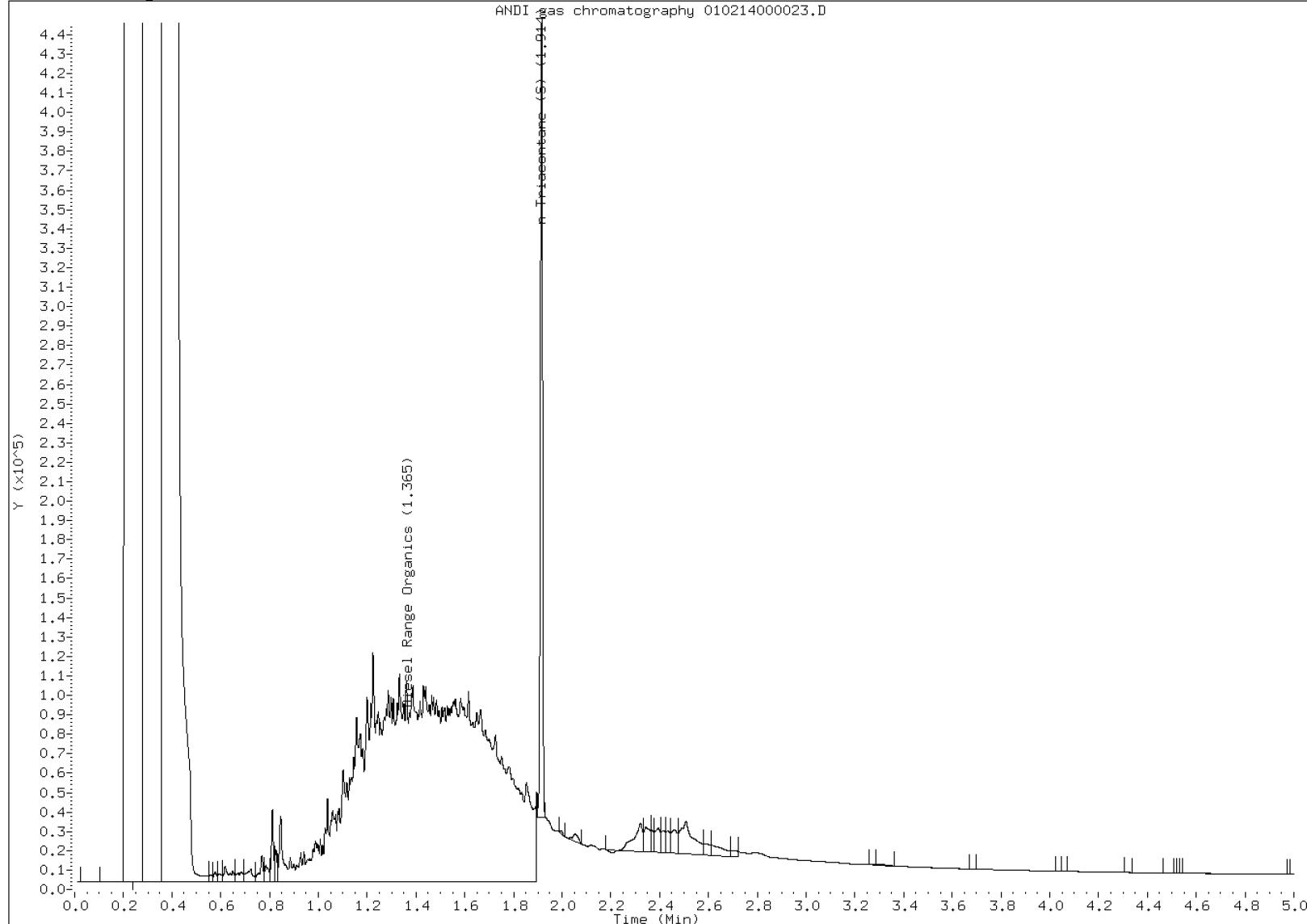
Document Revised: 16Apr2012

Page 1 of 1

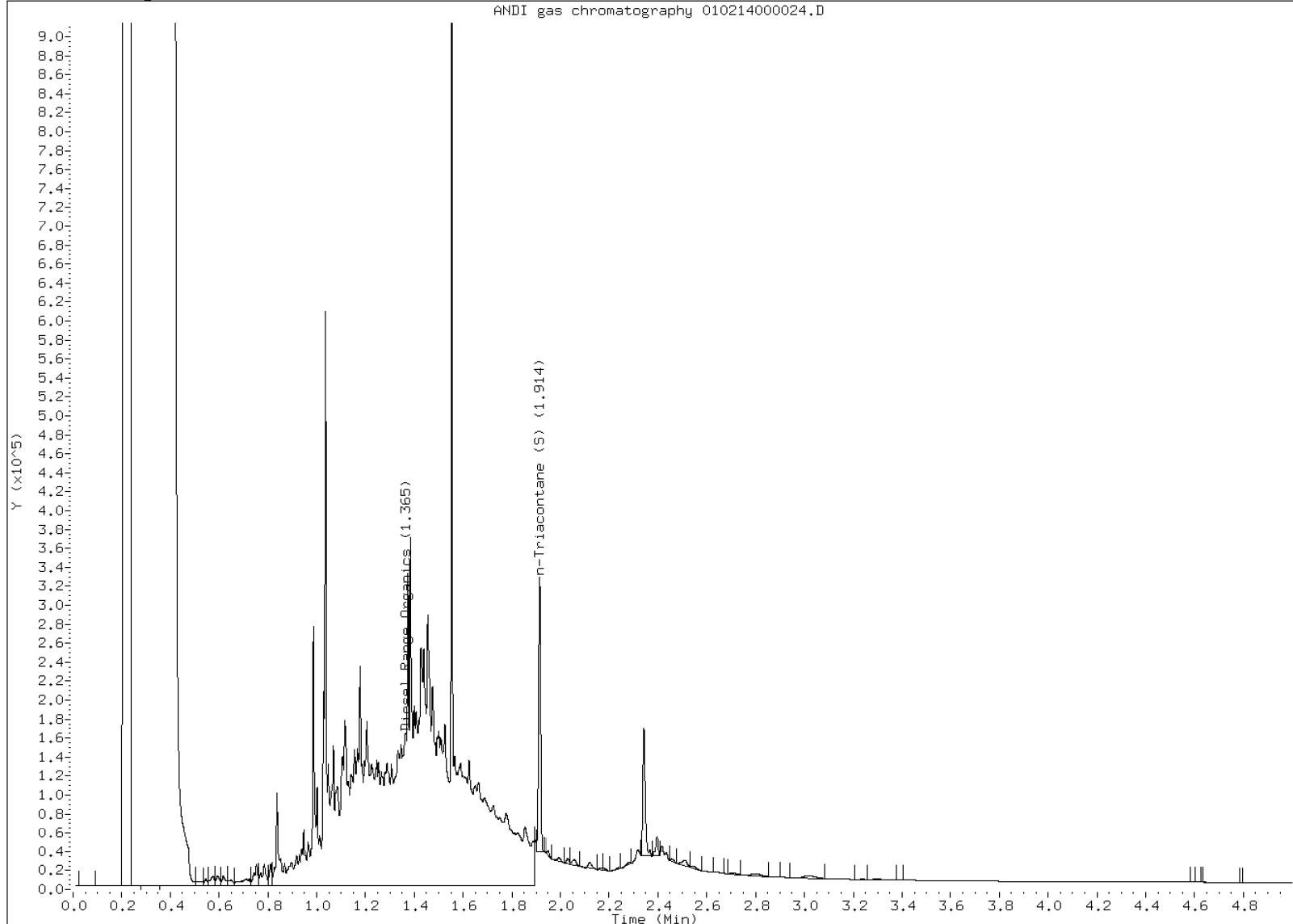
Issuing Authority:  
Pace Minnesota Quality Office

Workorder #: 10253658

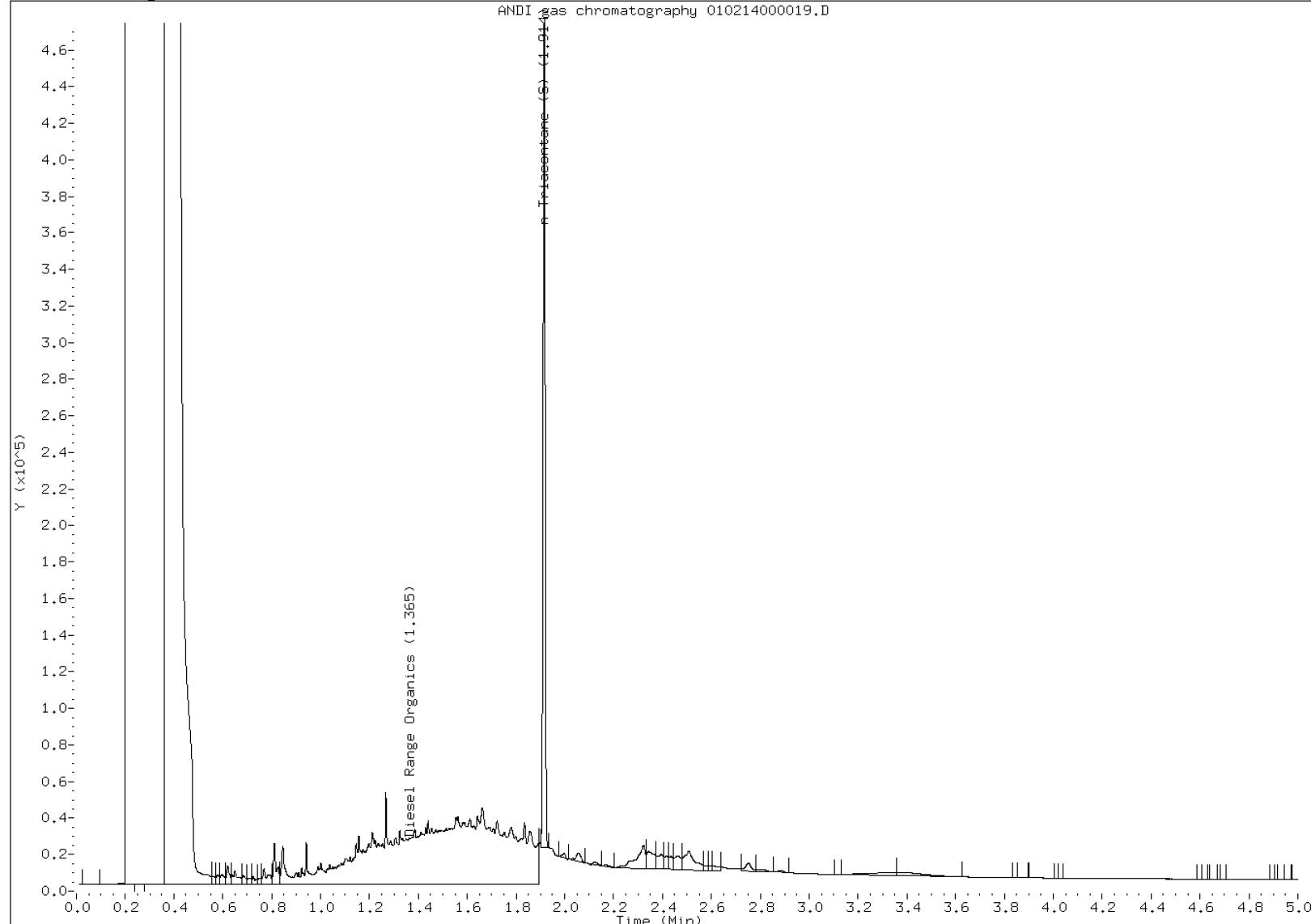
Data File: \\192.168.10.12\chem\10gcs9.i\010214dro.b/010214000023.D  
Report Date: 01/03/2014  
Sample ID: 10253658001  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253658001  
Purge Volume:  
Column phase: DB-5MS  
Operator: MT  
Column diameter: 0.25



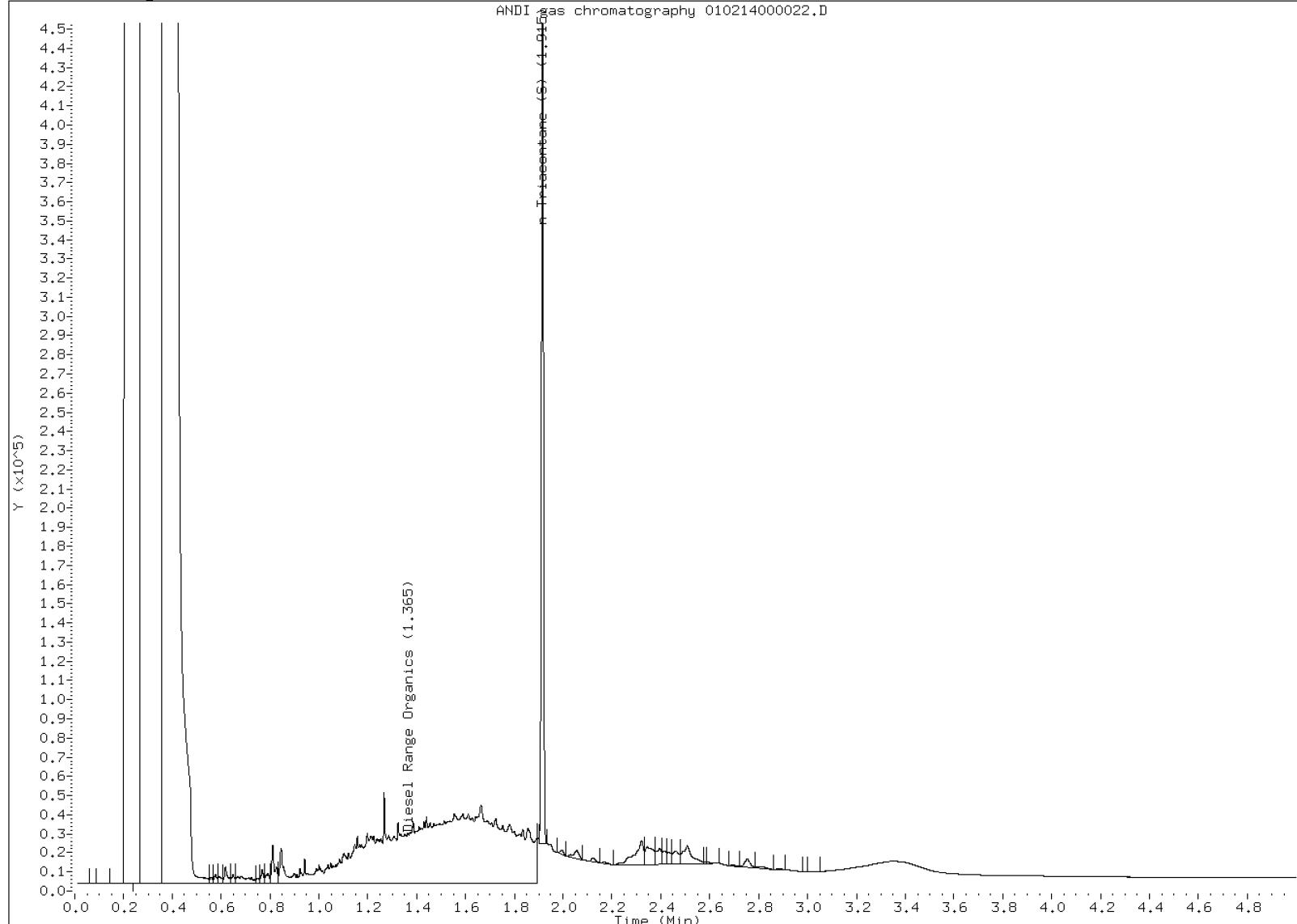
Data File: \\192.168.10.12\chem\10gcs9.i\010214dro.b/010214000024.D  
Report Date: 01/03/2014  
Sample ID: 10253658002  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253658002  
Purge Volume:  
Column phase: DB-5MS  
Operator: MT  
Column diameter: 0.25



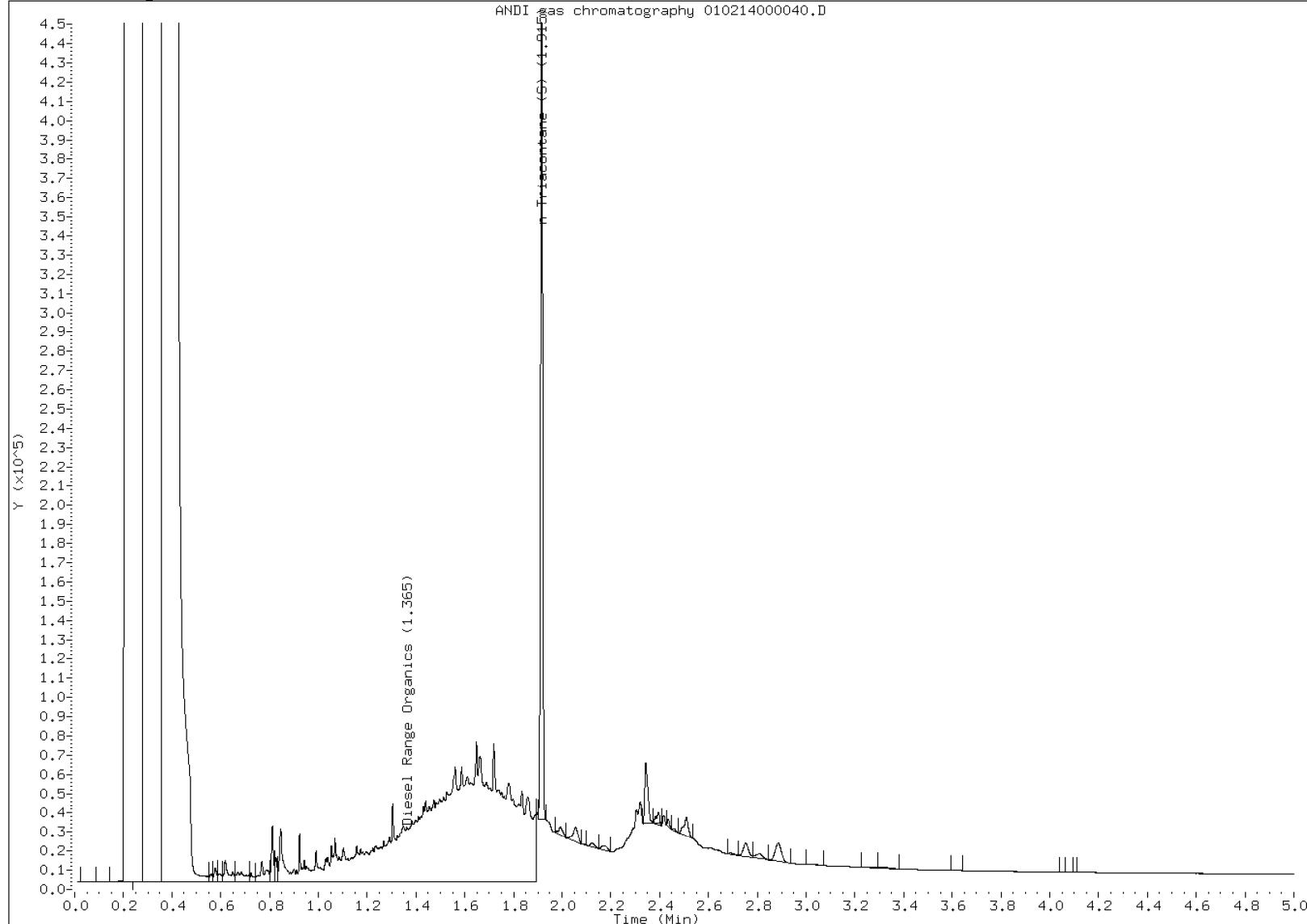
Data File: \\192.168.10.12\chem\10gcs9.i\010214dro.b/010214000019.D  
Report Date: 01/03/2014  
Sample ID: 10253658003  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253658003  
Purge Volume:  
Column phase: DB-5MS  
Operator: MT  
Column diameter: 0.25



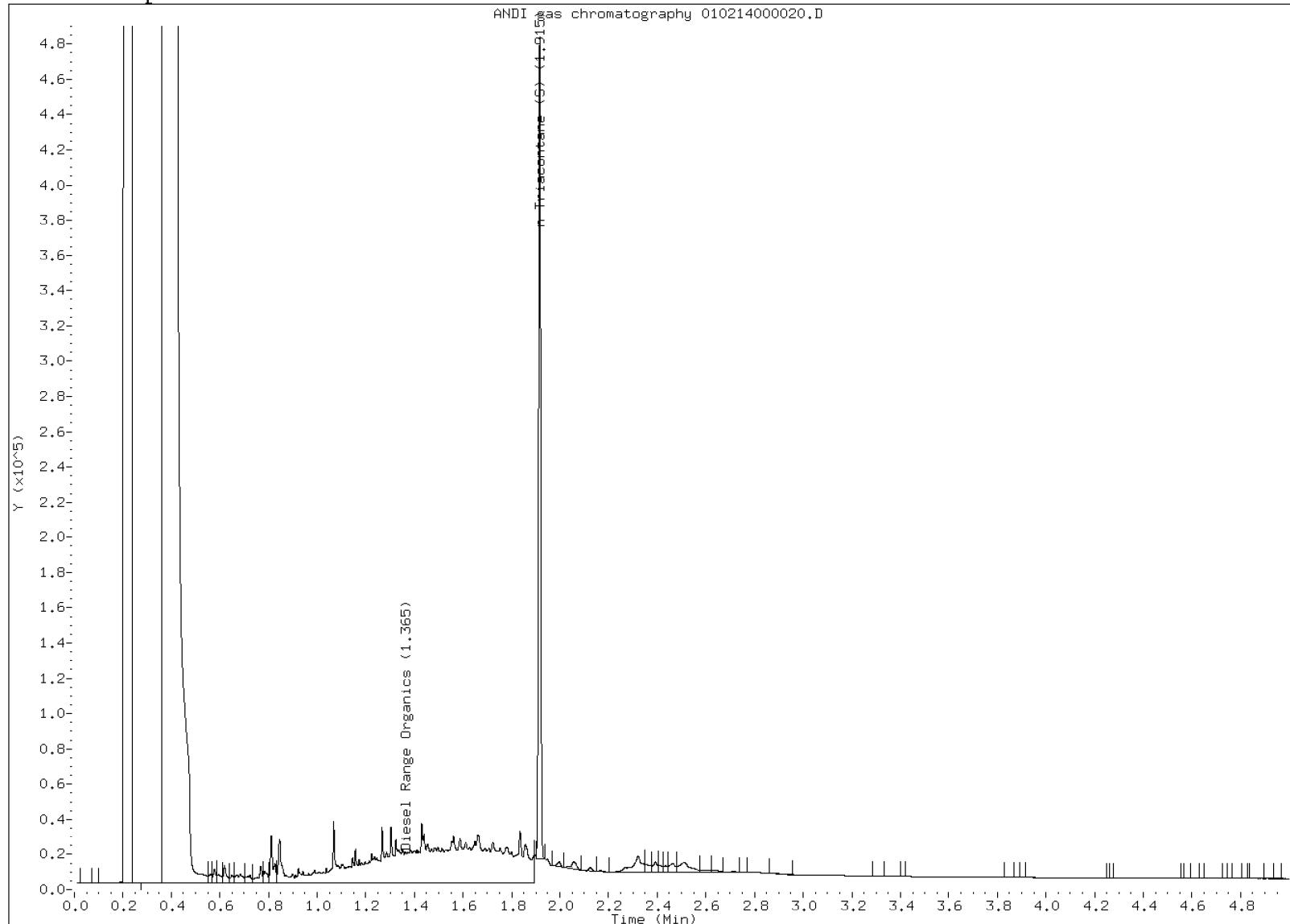
Data File: \\192.168.10.12\chem\10gcs9.i\010214dro.b/010214000022.D  
Report Date: 01/03/2014  
Sample ID: 10253658004  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253658004  
Purge Volume:  
Column phase: DB-5MS  
Operator: MT  
Column diameter: 0.25



Data File: \\192.168.10.12\chem\10gcs9.i\010214dro.b/010214000040.D  
Report Date: 01/03/2014  
Sample ID: 10253658005  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253658005  
Purge Volume:  
Column phase: DB-5MS  
Operator: MT  
Column diameter: 0.25

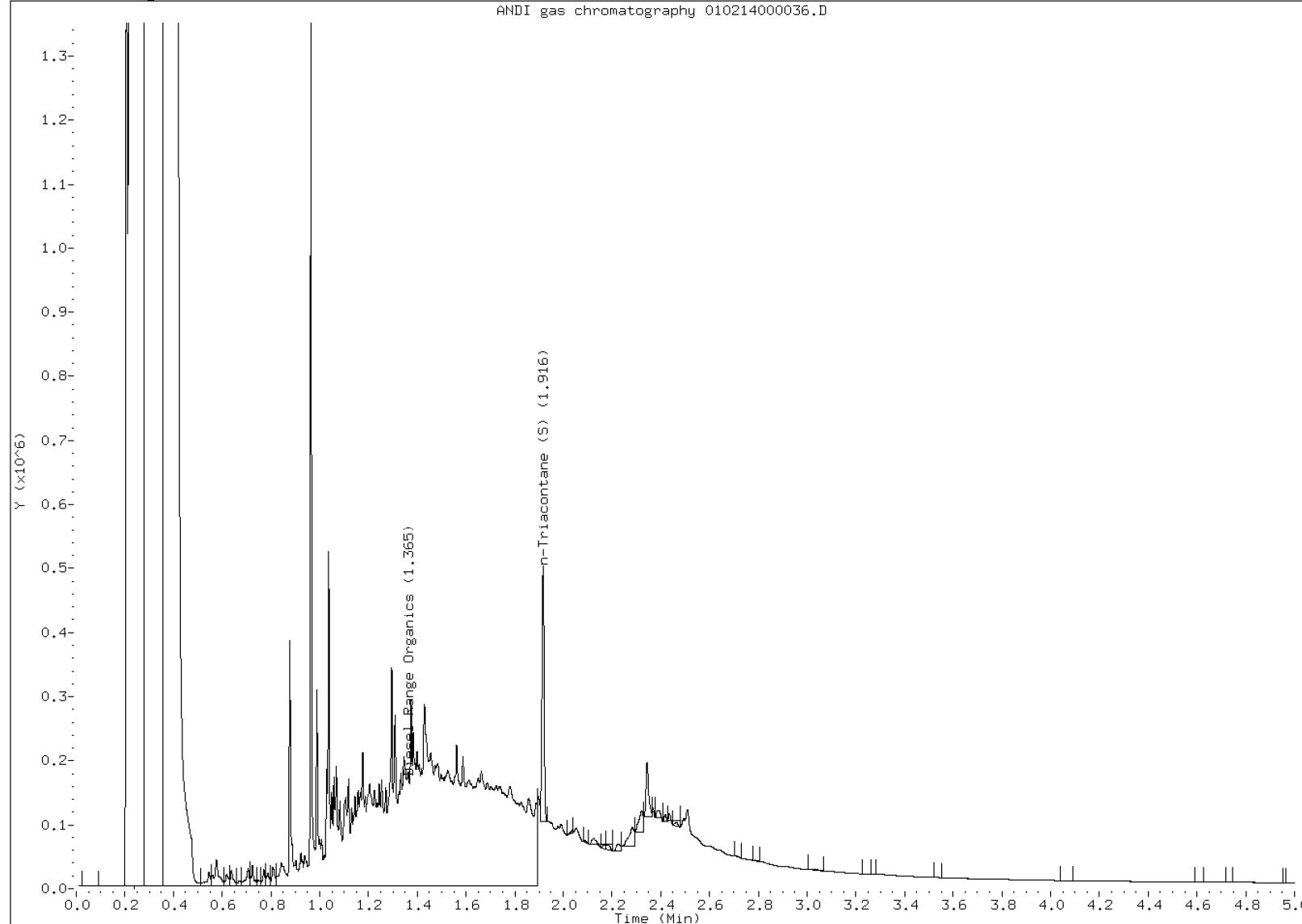


Data File: \\192.168.10.12\chem\10gcs9.i\010214dro.b/010214000020.D  
Report Date: 01/03/2014  
Sample ID: 10253658006  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253658006  
Purge Volume:  
Column phase: DB-5MS  
Operator: MT  
Column diameter: 0.25



Data File: \\192.168.10.12\chem\10gcs9.i\010214dro.b/010214000036.D  
Report Date: 01/03/2014  
Sample ID: 10253658007  
Client ID:  
Instrument: 10gcs9.i  
Sample Information: 10253658007  
Purge Volume:  
Column phase: DB-5MS  
Operator: MT  
Column diameter: 0.25

ANDI gas chromatography 010214000036.D



January 08, 2014

Mr. Bruce Schaepe  
Peer Engineering, Inc.  
7615 Golden Triangle Drive  
Suite N  
Eden Prairie, MN 55344

RE: Project: 22056.06 1522 Whitaker St.  
Pace Project No.: 10253655

Dear Mr. Schaepe:

Enclosed are the analytical results for sample(s) received by the laboratory on December 27, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Diane J. Anderson

diane.anderson@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## CERTIFICATIONS

Project: 22056.06 1522 Whitaker St.

Pace Project No.: 10253655

---

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414  
A2LA Certification #: 2926.01  
Alabama Dept of Environmental Management #40770  
Alaska Certification #: UST-078  
Alaska Certification #MN00064  
Arizona Certification #: AZ-0014  
Arkansas Certification #: 88-0680  
California Certification #: 01155CA  
Colorado Certification #Pace  
Connecticut Certification #: PH-0256  
EPA Region 8 Certification #: Pace  
EPA Region 5 #WD-15J  
Florida/NELAP Certification #: E87605  
Georgia Certification #: 959  
Hawaii Certification #Pace  
Idaho Certification #: MN00064  
Illinois Certification #: 200011  
Indiana Certification#C-MN-01  
Iowa Certification #: 368  
Kansas Certification #: E-10167  
Kentucky Dept of Envi. Protection - DW #90062  
Louisiana Certification #: 03086  
Louisiana Certification #: LA080009  
Maine Certification #: 2007029  
Maryland Certification #: 322

Michigan DEQ Certification #: 9909  
Minnesota Certification #: 027-053-137  
Mississippi Certification #: Pace  
Montana Certification #: MT CERT0092  
Nebraska Certification #: Pace  
Nevada Certification #: MN\_00064  
New Jersey Certification #: MN-002  
New York Certification #: 11647  
North Carolina Certification #: 530  
North Dakota Certification #: R-036  
Ohio VAP Certification #: CL101  
Oklahoma Certification #: 9507  
Oregon Certification #: MN200001  
Oregon Certification #: MN300001  
Pennsylvania Certification #: 68-00563  
Puerto Rico Certification  
Tennessee Certification #: 02818  
Texas Certification #: T104704192  
Utah Certification #: MN00064  
Virginia/DCLS Certification #: 002521  
Virginia/VELAP Certification #: 460163  
Washington Certification #: C754  
West Virginia Certification #: 382  
Wisconsin Certification #: 999407970

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## SAMPLE SUMMARY

Project: 22056.06 1522 Whitaker St.

Pace Project No.: 10253655

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10253655001	WH-SG-GP-13	Air	12/27/13 10:50	12/27/13 17:25
10253655002	WH-SG-GP-14	Air	12/27/13 10:30	12/27/13 17:25

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## SAMPLE ANALYTE COUNT

Project: 22056.06 1522 Whitaker St.

Pace Project No.: 10253655

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10253655001	WH-SG-GP-13	TO-15	DJL	61
10253655002	WH-SG-GP-14	TO-15	DJL	61

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St.

Pace Project No.: 10253655

Sample: WH-SG-GP-13	Lab ID: 10253655001	Collected: 12/27/13 10:50	Received: 12/27/13 17:25	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>	Analytical Method: TO-15							
Acetone	33.2 ug/m3		0.90	1.87		01/06/14 23:57	67-64-1	
Benzene	2.0 ug/m3		0.61	1.87		01/06/14 23:57	71-43-2	
Benzyl chloride	ND ug/m3		2.0	1.87		01/06/14 23:57	100-44-7	
Bromodichloromethane	ND ug/m3		2.5	1.87		01/06/14 23:57	75-27-4	
Bromoform	ND ug/m3		3.9	1.87		01/06/14 23:57	75-25-2	
Bromomethane	ND ug/m3		1.5	1.87		01/06/14 23:57	74-83-9	
1,3-Butadiene	ND ug/m3		0.84	1.87		01/06/14 23:57	106-99-0	
2-Butanone (MEK)	8.2 ug/m3		1.1	1.87		01/06/14 23:57	78-93-3	
Carbon disulfide	3.4 ug/m3		1.2	1.87		01/06/14 23:57	75-15-0	
Carbon tetrachloride	2.1 ug/m3		1.2	1.87		01/06/14 23:57	56-23-5	
Chlorobenzene	6.7 ug/m3		1.8	1.87		01/06/14 23:57	108-90-7	
Chloroethane	ND ug/m3		1.0	1.87		01/06/14 23:57	75-00-3	
Chloroform	ND ug/m3		1.9	1.87		01/06/14 23:57	67-66-3	
Chloromethane	0.99 ug/m3		0.79	1.87		01/06/14 23:57	74-87-3	
Cyclohexane	ND ug/m3		1.3	1.87		01/06/14 23:57	110-82-7	
Dibromochloromethane	ND ug/m3		3.2	1.87		01/06/14 23:57	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/m3		2.9	1.87		01/06/14 23:57	106-93-4	
1,2-Dichlorobenzene	ND ug/m3		2.3	1.87		01/06/14 23:57	95-50-1	
1,3-Dichlorobenzene	ND ug/m3		2.3	1.87		01/06/14 23:57	541-73-1	
1,4-Dichlorobenzene	ND ug/m3		2.3	1.87		01/06/14 23:57	106-46-7	
Dichlorodifluoromethane	5.9 ug/m3		1.9	1.87		01/06/14 23:57	75-71-8	
1,1-Dichloroethane	ND ug/m3		1.5	1.87		01/06/14 23:57	75-34-3	
1,2-Dichloroethane	ND ug/m3		0.77	1.87		01/06/14 23:57	107-06-2	
1,1-Dichloroethene	ND ug/m3		1.5	1.87		01/06/14 23:57	75-35-4	
cis-1,2-Dichloroethene	ND ug/m3		1.5	1.87		01/06/14 23:57	156-59-2	
trans-1,2-Dichloroethene	ND ug/m3		1.5	1.87		01/06/14 23:57	156-60-5	
1,2-Dichloropropane	ND ug/m3		1.8	1.87		01/06/14 23:57	78-87-5	
cis-1,3-Dichloropropene	ND ug/m3		1.7	1.87		01/06/14 23:57	10061-01-5	
trans-1,3-Dichloropropene	ND ug/m3		1.7	1.87		01/06/14 23:57	10061-02-6	
Dichlorotetrafluoroethane	ND ug/m3		2.7	1.87		01/06/14 23:57	76-14-2	
Ethanol	17.4 ug/m3		0.71	1.87		01/06/14 23:57	64-17-5	
Ethyl acetate	ND ug/m3		1.4	1.87		01/06/14 23:57	141-78-6	
Ethylbenzene	2.7 ug/m3		1.6	1.87		01/06/14 23:57	100-41-4	
4-Ethyltoluene	ND ug/m3		1.9	1.87		01/06/14 23:57	622-96-8	
n-Heptane	3.3 ug/m3		1.6	1.87		01/06/14 23:57	142-82-5	
Hexachloro-1,3-butadiene	ND ug/m3		4.1	1.87		01/06/14 23:57	87-68-3	
n-Hexane	5.5 ug/m3		1.3	1.87		01/06/14 23:57	110-54-3	
2-Hexanone	ND ug/m3		1.6	1.87		01/06/14 23:57	591-78-6	
Methylene Chloride	38.7 ug/m3		1.3	1.87		01/06/14 23:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/m3		1.6	1.87		01/06/14 23:57	108-10-1	
Methyl-tert-butyl ether	ND ug/m3		1.4	1.87		01/06/14 23:57	1634-04-4	
Naphthalene	2.7 ug/m3		2.0	1.87		01/06/14 23:57	91-20-3	
2-Propanol	ND ug/m3		0.94	1.87		01/06/14 23:57	67-63-0	
Propylene	12.0 ug/m3		0.65	1.87		01/06/14 23:57	115-07-1	
Styrene	ND ug/m3		1.6	1.87		01/06/14 23:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/m3		1.3	1.87		01/06/14 23:57	79-34-5	
Tetrachloroethene	ND ug/m3		1.3	1.87		01/06/14 23:57	127-18-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St.

Pace Project No.: 10253655

Sample: WH-SG-GP-13	Lab ID: 10253655001	Collected: 12/27/13 10:50	Received: 12/27/13 17:25	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Tetrahydrofuran	<b>3.0</b> ug/m3		1.1	1.87		01/06/14 23:57	109-99-9	
Toluene	<b>7.2</b> ug/m3		1.4	1.87		01/06/14 23:57	108-88-3	
1,2,4-Trichlorobenzene	ND ug/m3		2.8	1.87		01/06/14 23:57	120-82-1	
1,1,1-Trichloroethane	ND ug/m3		2.1	1.87		01/06/14 23:57	71-55-6	
1,1,2-Trichloroethane	ND ug/m3		1.0	1.87		01/06/14 23:57	79-00-5	
Trichloroethylene	<b>1.8</b> ug/m3		1.0	1.87		01/06/14 23:57	79-01-6	
Trichlorofluoromethane	<b>2.9</b> ug/m3		2.1	1.87		01/06/14 23:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/m3		3.0	1.87		01/06/14 23:57	76-13-1	
1,2,4-Trimethylbenzene	<b>2.2</b> ug/m3		1.9	1.87		01/06/14 23:57	95-63-6	
1,3,5-Trimethylbenzene	ND ug/m3		1.9	1.87		01/06/14 23:57	108-67-8	
Vinyl acetate	ND ug/m3		1.3	1.87		01/06/14 23:57	108-05-4	
Vinyl chloride	ND ug/m3		0.49	1.87		01/06/14 23:57	75-01-4	
m&p-Xylene	<b>9.5</b> ug/m3		3.3	1.87		01/06/14 23:57	179601-23-1	
o-Xylene	<b>3.1</b> ug/m3		1.6	1.87		01/06/14 23:57	95-47-6	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St.

Pace Project No.: 10253655

Sample: WH-SG-GP-14	Lab ID: 10253655002	Collected: 12/27/13 10:30	Received: 12/27/13 17:25	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>	Analytical Method: TO-15							
Acetone	63.7	ug/m <sup>3</sup>	0.90	1.87		01/06/14 23:24	67-64-1	
Benzene	9.8	ug/m <sup>3</sup>	0.61	1.87		01/06/14 23:24	71-43-2	
Benzyl chloride	ND	ug/m <sup>3</sup>	2.0	1.87		01/06/14 23:24	100-44-7	
Bromodichloromethane	ND	ug/m <sup>3</sup>	2.5	1.87		01/06/14 23:24	75-27-4	
Bromoform	ND	ug/m <sup>3</sup>	3.9	1.87		01/06/14 23:24	75-25-2	
Bromomethane	ND	ug/m <sup>3</sup>	1.5	1.87		01/06/14 23:24	74-83-9	
1,3-Butadiene	ND	ug/m <sup>3</sup>	0.84	1.87		01/06/14 23:24	106-99-0	
2-Butanone (MEK)	17.7	ug/m <sup>3</sup>	1.1	1.87		01/06/14 23:24	78-93-3	
Carbon disulfide	10.6	ug/m <sup>3</sup>	1.2	1.87		01/06/14 23:24	75-15-0	
Carbon tetrachloride	2.0	ug/m <sup>3</sup>	1.2	1.87		01/06/14 23:24	56-23-5	
Chlorobenzene	50.3	ug/m <sup>3</sup>	1.8	1.87		01/06/14 23:24	108-90-7	
Chloroethane	ND	ug/m <sup>3</sup>	1.0	1.87		01/06/14 23:24	75-00-3	
Chloroform	ND	ug/m <sup>3</sup>	1.9	1.87		01/06/14 23:24	67-66-3	
Chloromethane	ND	ug/m <sup>3</sup>	0.79	1.87		01/06/14 23:24	74-87-3	
Cyclohexane	ND	ug/m <sup>3</sup>	1.3	1.87		01/06/14 23:24	110-82-7	
Dibromochloromethane	ND	ug/m <sup>3</sup>	3.2	1.87		01/06/14 23:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m <sup>3</sup>	2.9	1.87		01/06/14 23:24	106-93-4	
1,2-Dichlorobenzene	19.0	ug/m <sup>3</sup>	2.3	1.87		01/06/14 23:24	95-50-1	
1,3-Dichlorobenzene	3.7	ug/m <sup>3</sup>	2.3	1.87		01/06/14 23:24	541-73-1	
1,4-Dichlorobenzene	17.0	ug/m <sup>3</sup>	2.3	1.87		01/06/14 23:24	106-46-7	
Dichlorodifluoromethane	ND	ug/m <sup>3</sup>	1.9	1.87		01/06/14 23:24	75-71-8	
1,1-Dichloroethane	ND	ug/m <sup>3</sup>	1.5	1.87		01/06/14 23:24	75-34-3	
1,2-Dichloroethane	ND	ug/m <sup>3</sup>	0.77	1.87		01/06/14 23:24	107-06-2	
1,1-Dichloroethene	ND	ug/m <sup>3</sup>	1.5	1.87		01/06/14 23:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m <sup>3</sup>	1.5	1.87		01/06/14 23:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m <sup>3</sup>	1.5	1.87		01/06/14 23:24	156-60-5	
1,2-Dichloropropane	ND	ug/m <sup>3</sup>	1.8	1.87		01/06/14 23:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m <sup>3</sup>	1.7	1.87		01/06/14 23:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m <sup>3</sup>	1.7	1.87		01/06/14 23:24	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m <sup>3</sup>	2.7	1.87		01/06/14 23:24	76-14-2	
Ethanol	7.4	ug/m <sup>3</sup>	0.71	1.87		01/06/14 23:24	64-17-5	
Ethyl acetate	ND	ug/m <sup>3</sup>	1.4	1.87		01/06/14 23:24	141-78-6	
Ethylbenzene	3.8	ug/m <sup>3</sup>	1.6	1.87		01/06/14 23:24	100-41-4	
4-Ethyltoluene	2.9	ug/m <sup>3</sup>	1.9	1.87		01/06/14 23:24	622-96-8	
n-Heptane	8.0	ug/m <sup>3</sup>	1.6	1.87		01/06/14 23:24	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m <sup>3</sup>	4.1	1.87		01/06/14 23:24	87-68-3	
n-Hexane	3.9	ug/m <sup>3</sup>	1.3	1.87		01/06/14 23:24	110-54-3	
2-Hexanone	2.1	ug/m <sup>3</sup>	1.6	1.87		01/06/14 23:24	591-78-6	
Methylene Chloride	2.3	ug/m <sup>3</sup>	1.3	1.87		01/06/14 23:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	3.1	ug/m <sup>3</sup>	1.6	1.87		01/06/14 23:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/m <sup>3</sup>	1.4	1.87		01/06/14 23:24	1634-04-4	
Naphthalene	5.2	ug/m <sup>3</sup>	2.0	1.87		01/06/14 23:24	91-20-3	
2-Propanol	6.2	ug/m <sup>3</sup>	0.94	1.87		01/06/14 23:24	67-63-0	
Propylene	28.2	ug/m <sup>3</sup>	0.65	1.87		01/06/14 23:24	115-07-1	
Styrene	ND	ug/m <sup>3</sup>	1.6	1.87		01/06/14 23:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m <sup>3</sup>	1.3	1.87		01/06/14 23:24	79-34-5	
Tetrachloroethene	1.5	ug/m <sup>3</sup>	1.3	1.87		01/06/14 23:24	127-18-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: 22056.06 1522 Whitaker St.

Pace Project No.: 10253655

Sample: WH-SG-GP-14	Lab ID: 10253655002	Collected: 12/27/13 10:30	Received: 12/27/13 17:25	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	1.1	1.87		01/06/14 23:24	109-99-9	
Toluene	<b>140</b>	ug/m3	1.4	1.87		01/06/14 23:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.8	1.87		01/06/14 23:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2.1	1.87		01/06/14 23:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.0	1.87		01/06/14 23:24	79-00-5	
Trichloroethylene	<b>2.3</b>	ug/m3	1.0	1.87		01/06/14 23:24	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2.1	1.87		01/06/14 23:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	3.0	1.87		01/06/14 23:24	76-13-1	
1,2,4-Trimethylbenzene	<b>6.4</b>	ug/m3	1.9	1.87		01/06/14 23:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.9	1.87		01/06/14 23:24	108-67-8	
Vinyl acetate	ND	ug/m3	1.3	1.87		01/06/14 23:24	108-05-4	
Vinyl chloride	ND	ug/m3	0.49	1.87		01/06/14 23:24	75-01-4	
m&p-Xylene	<b>12.1</b>	ug/m3	3.3	1.87		01/06/14 23:24	179601-23-1	
o-Xylene	<b>4.7</b>	ug/m3	1.6	1.87		01/06/14 23:24	95-47-6	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St.

Pace Project No.: 10253655

QC Batch: AIR/19115

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 10253655001, 10253655002

METHOD BLANK: 1604665

Matrix: Air

Associated Lab Samples: 10253655001, 10253655002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	01/06/14 15:14	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	01/06/14 15:14	
1,1,2-Trichloroethane	ug/m3	ND	0.55	01/06/14 15:14	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	01/06/14 15:14	
1,1-Dichloroethane	ug/m3	ND	0.82	01/06/14 15:14	
1,1-Dichloroethene	ug/m3	ND	0.81	01/06/14 15:14	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	01/06/14 15:14	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	01/06/14 15:14	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	01/06/14 15:14	
1,2-Dichlorobenzene	ug/m3	ND	1.2	01/06/14 15:14	
1,2-Dichloroethane	ug/m3	ND	0.41	01/06/14 15:14	
1,2-Dichloropropane	ug/m3	ND	0.94	01/06/14 15:14	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	01/06/14 15:14	
1,3-Butadiene	ug/m3	ND	0.45	01/06/14 15:14	
1,3-Dichlorobenzene	ug/m3	ND	1.2	01/06/14 15:14	
1,4-Dichlorobenzene	ug/m3	ND	1.2	01/06/14 15:14	
2-Butanone (MEK)	ug/m3	ND	0.60	01/06/14 15:14	
2-Hexanone	ug/m3	ND	0.83	01/06/14 15:14	
2-Propanol	ug/m3	ND	0.50	01/06/14 15:14	
4-Ethyltoluene	ug/m3	ND	1.0	01/06/14 15:14	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	01/06/14 15:14	
Acetone	ug/m3	ND	0.48	01/06/14 15:14	
Benzene	ug/m3	ND	0.32	01/06/14 15:14	
Benzyl chloride	ug/m3	ND	1.0	01/06/14 15:14	
Bromodichloromethane	ug/m3	ND	1.4	01/06/14 15:14	
Bromoform	ug/m3	ND	2.1	01/06/14 15:14	
Bromomethane	ug/m3	ND	0.79	01/06/14 15:14	
Carbon disulfide	ug/m3	ND	0.63	01/06/14 15:14	
Carbon tetrachloride	ug/m3	ND	0.64	01/06/14 15:14	
Chlorobenzene	ug/m3	ND	0.94	01/06/14 15:14	
Chloroethane	ug/m3	ND	0.54	01/06/14 15:14	
Chloroform	ug/m3	ND	0.99	01/06/14 15:14	
Chloromethane	ug/m3	ND	0.42	01/06/14 15:14	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	01/06/14 15:14	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	01/06/14 15:14	
Cyclohexane	ug/m3	ND	0.70	01/06/14 15:14	
Dibromochloromethane	ug/m3	ND	1.7	01/06/14 15:14	
Dichlorodifluoromethane	ug/m3	ND	1.0	01/06/14 15:14	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	01/06/14 15:14	
Ethanol	ug/m3	ND	0.38	01/06/14 15:14	
Ethyl acetate	ug/m3	ND	0.73	01/06/14 15:14	
Ethylbenzene	ug/m3	ND	0.88	01/06/14 15:14	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	01/06/14 15:14	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St.

Pace Project No.: 10253655

METHOD BLANK: 1604665

Matrix: Air

Associated Lab Samples: 10253655001, 10253655002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	01/06/14 15:14	
Methyl-tert-butyl ether	ug/m3	ND	0.73	01/06/14 15:14	
Methylene Chloride	ug/m3	ND	0.71	01/06/14 15:14	
n-Heptane	ug/m3	ND	0.83	01/06/14 15:14	
n-Hexane	ug/m3	ND	0.72	01/06/14 15:14	
Naphthalene	ug/m3	ND	1.1	01/06/14 15:14	
o-Xylene	ug/m3	ND	0.88	01/06/14 15:14	
Propylene	ug/m3	ND	0.35	01/06/14 15:14	
Styrene	ug/m3	ND	0.87	01/06/14 15:14	
Tetrachloroethene	ug/m3	ND	0.69	01/06/14 15:14	
Tetrahydrofuran	ug/m3	ND	0.60	01/06/14 15:14	
Toluene	ug/m3	ND	0.77	01/06/14 15:14	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	01/06/14 15:14	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	01/06/14 15:14	
Trichloroethene	ug/m3	ND	0.55	01/06/14 15:14	
Trichlorofluoromethane	ug/m3	ND	1.1	01/06/14 15:14	
Vinyl acetate	ug/m3	ND	0.72	01/06/14 15:14	
Vinyl chloride	ug/m3	ND	0.26	01/06/14 15:14	

LABORATORY CONTROL SAMPLE: 1604666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	60.2	109	72-128	
1,1,2-Tetrachloroethane	ug/m3	69.8	80.5	115	72-136	
1,1,2-Trichloroethane	ug/m3	55.5	64.6	116	72-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	93.9	120	68-126	
1,1-Dichloroethane	ug/m3	41.2	46.8	114	68-128	
1,1-Dichloroethene	ug/m3	40.3	47.1	117	68-130	
1,2,4-Trichlorobenzene	ug/m3	75.5	80.8	107	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	57.1	114	71-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	87.4	112	73-136	
1,2-Dichlorobenzene	ug/m3	61.2	70.9	116	63-150	
1,2-Dichloroethane	ug/m3	41.2	45.7	111	71-132	
1,2-Dichloropropane	ug/m3	47	57.9	123	72-130	
1,3,5-Trimethylbenzene	ug/m3	50	57.0	114	73-136	
1,3-Butadiene	ug/m3	22.5	25.6	114	72-130	
1,3-Dichlorobenzene	ug/m3	61.2	61.8	101	69-142	
1,4-Dichlorobenzene	ug/m3	61.2	61.7	101	65-142	
2-Butanone (MEK)	ug/m3	30	33.7	112	71-135	
2-Hexanone	ug/m3	41.7	48.0	115	75-133	
2-Propanol	ug/m3	25	30.4	122	68-135	
4-Ethyltoluene	ug/m3	50	57.1	114	73-134	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	47.8	115	72-137	
Acetone	ug/m3	24.2	28.3	117	68-136	
Benzene	ug/m3	32.5	40.9	126	69-134	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 22056.06 1522 Whitaker St.

Pace Project No.: 10253655

LABORATORY CONTROL SAMPLE: 1604666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	51.6	98	71-136	
Bromodichloromethane	ug/m3	68.2	76.0	112	74-129	
Bromoform	ug/m3	105	117	111	69-138	
Bromomethane	ug/m3	39.5	44.7	113	68-127	
Carbon disulfide	ug/m3	31.7	35.3	111	68-130	
Carbon tetrachloride	ug/m3	64	70.7	110	66-134	
Chlorobenzene	ug/m3	46.8	52.8	113	72-137	
Chloroethane	ug/m3	26.8	30.7	114	69-128	
Chloroform	ug/m3	49.7	55.4	112	72-127	
Chloromethane	ug/m3	21	25.1	120	69-125	
cis-1,2-Dichloroethene	ug/m3	40.3	45.1	112	71-135	
cis-1,3-Dichloropropene	ug/m3	46.2	50.0	108	74-134	
Cyclohexane	ug/m3	35	42.7	122	72-130	
Dibromochloromethane	ug/m3	86.6	95.9	111	73-133	
Dichlorodifluoromethane	ug/m3	50.3	59.4	118	69-125	
Dichlorotetrafluoroethane	ug/m3	71.1	81.5	115	68-128	
Ethanol	ug/m3	19.2	23.4	122	70-134	
Ethyl acetate	ug/m3	36.6	42.8	117	71-134	
Ethylbenzene	ug/m3	44.2	51.0	115	73-139	
Hexachloro-1,3-butadiene	ug/m3	108	111	103	30-150	
m&p-Xylene	ug/m3	44.2	50.8	115	73-139	
Methyl-tert-butyl ether	ug/m3	36.7	41.8	114	72-132	
Methylene Chloride	ug/m3	35.3	40.6	115	64-134	
n-Heptane	ug/m3	41.7	50.2	120	70-130	
n-Hexane	ug/m3	35.8	41.6	116	69-128	
Naphthalene	ug/m3	53.3	60.3	113	61-150	
o-Xylene	ug/m3	44.2	51.3	116	71-138	
Propylene	ug/m3	17.5	20.2	115	69-133	
Styrene	ug/m3	43.3	51.9	120	74-136	
Tetrachloroethene	ug/m3	69	75.8	110	69-136	
Tetrahydrofuran	ug/m3	30	33.6	112	73-131	
Toluene	ug/m3	38.3	45.5	119	67-133	
trans-1,2-Dichloroethene	ug/m3	40.3	45.0	112	70-131	
trans-1,3-Dichloropropene	ug/m3	46.2	49.4	107	72-135	
Trichloroethene	ug/m3	54.6	61.7	113	70-135	
Trichlorofluoromethane	ug/m3	57.1	63.5	111	67-125	
Vinyl acetate	ug/m3	35.8	40.3	113	72-133	
Vinyl chloride	ug/m3	26	29.5	114	69-132	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALIFIERS

Project: 22056.06 1522 Whitaker St.

Pace Project No.: 10253655

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### SAMPLE QUALIFIERS

Sample: 10253655001

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10253655002

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 22056.06 1522 Whitaker St.  
Pace Project No.: 10253655

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10253655001	WH-SG-GP-13	TO-15	AIR/19115		
10253655002	WH-SG-GP-14	TO-15	AIR/19115		

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

# AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10253655

09432 Page: 1 of 1

**Section A**

Required Client Information:

Company: Peer Engineering  
Address: 7615 Golden Triangle Drive Suite V  
Eden Prairie, MN 55344  
Email To: bschaepe@peerengineering.com  
Phone: 612-831-3741 Fax: 612-831-0182  
Requested Due Date/TAT: Standard

**Section B**

Required Project Information:

Report To: Bruce Schaepe  
Copy To: Jeff Arnolt  
Purchase Order No.:  
Project Name: 1522 Whittaker St.  
Project Number: 22056.06

**Section C**

Invoice Information:

Attention: Peer Engineering  
Company Name: Peer Engineering  
Address:  
Pace Quote Reference:  
Pace Project Manager/Sales Rep. Diane Anderson  
Pace Profile #:

09432

Page: 1 of 1

**Program**
 UST    Superfund    Emissions    Clean Air Act  
 Voluntary Clean Up    Dry Clean    RCRA    Other

**Reporting Units**  
Location of Sampling by State MN  
 ug/m<sup>3</sup>    mg/m<sup>3</sup>  
 PPBV    PPMV  
 Other

**Report Level** II.   III.   IV.   Other \_\_\_\_\_

**Method:**

PM10	TO-3	TO-3i (Fixed Gas %)	TO-3ii (Methane)	TO-4 (PCBs)	TO-13 (PAHs)	TO-14	TO-15	TO-15 Short List*
------	------	---------------------	------------------	-------------	--------------	-------	-------	-------------------

Pace Lab ID

10253655001

002

**\*Section D Required Client Information**
**AIR SAMPLE ID**

Sample IDs MUST BE UNIQUE

ITEM #	MEDIA CODE	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number				
				COMPOSITE START		COMPOSITE - END/GRAB									
				DATE	TIME	DATE	TIME								
1	WIT - SG - GP - 13	1LC	12/27/13 1630			27	4	1451							
2	WIT - SG - GP - 14	1LC	12/27/13 1030			28	4	1383							
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Jeff Arnolt / Peer	12/27/13	1600	Diane Anderson	12/27/13	1725	

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

Jeff Arnolt

Jeff Arnolt

DATE Signed (MM/DD/YY) 12/27/13

Temp in °C	Received on ice	Custody Sealed Cooler	Samples Intact
Y/N	Y/N	Y/N	Y/N
Y/N	Y/N	Y/N	Y/N

ORIGINAL

	Document Name: Air Sample Condition Upon Receipt	Document Revised: 28Jan2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.07	Issuing Authority: Pace Minnesota Quality Office
Air Sample Condition Upon Receipt	Client Name: <u>Rev Engineering</u>	Project #: <b>WO# : 10253655</b>
Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Pace <input type="checkbox"/> Other: _____		 10253655
Tracking Number: _____		

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No      Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  Foam  None  Other: \_\_\_\_\_

Temp. (TO17 and TO13 samples only) (°C): \_\_\_\_\_ Corrected Temp (°C): \_\_\_\_\_ Thermom. Used:  B88A912167504  80512447  72337080  
Temp should be above freezing to 6°C Correction Factor: \_\_\_\_\_ Date & Initials of Person Examining Contents: 12-27-13 /JG

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Media: <u>Air</u>				11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
001	<u>PACE 1491</u>				
002	<u>PACE 1383</u>				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review:

DM

Date:

12/30/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:  
Lab Smp Id: 10253655001  
Operator : DJL  
Sample Location:  
Sample Matrix: AIR  
Analysis Type: VOA  
Inj Date: 06-JAN-2014 23:57

Client SDG: 010614.b  
Sample Date:  
Sample Point:  
Date Received:  
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:  
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	3.827	609	J
2. 62237-96-1	Decane, 2,2,5-trimethyl-	11.884	44.0	NJ
3. 544-76-3	Hexadecane	12.474	47.1	NJ
4. 62237-99-4	Decane, 2,2,7-trimethyl-	12.914	115	NJ
5. 1000309-34-	Oxalic acid, 6-ethyloct-3-y	13.218	192	NJ
6. 3522-94-9	Hexane, 2,2,5-trimethyl-	13.572	308	NJ
7.	Unknown	13.807	146	J
8. 563-16-6	Hexane, 3,3-dimethyl-	13.993	62.8	NJ
9. 17312-63-9	Nonane, 5-butyl-	14.086	52.4	NJ
10. 62237-99-4	Decane, 2,2,7-trimethyl-	14.359	51.5	NJ

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air0.i\010614.b\00631.D  
Lab Smp Id: 10253655001  
Inj Date : 06-JAN-2014 23:57  
Operator : DJL Inst ID: 10air0.i  
Smp Info :  
Misc Info : 19115  
Comment : Volatile Organic COMPOUNDS in Air  
Method : \\192.168.10.12\chem\10air0.i\010614.b\TO15\_006-14.m  
Meth Date : 07-Jan-2014 13:40 drandall Quant Type: ISTD  
Cal Date : 06-JAN-2014 11:21 Cal File: 00605.D  
Als bottle: 31  
Dil Factor: 1.87000  
Integrator: HP RTE Compound Sublist: all.sub  
Target Version: 4.14  
Processing Host: 10AIRPC4

Concentration Formula: Amt \* DF \* Uf \* CpndVariable

Name	Value	Description
DF	1.870	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 38 1,4-Difluorobenzene	6.674	636866	10.000
* 55 Chlorobenzene - d5	9.837	596383	10.000

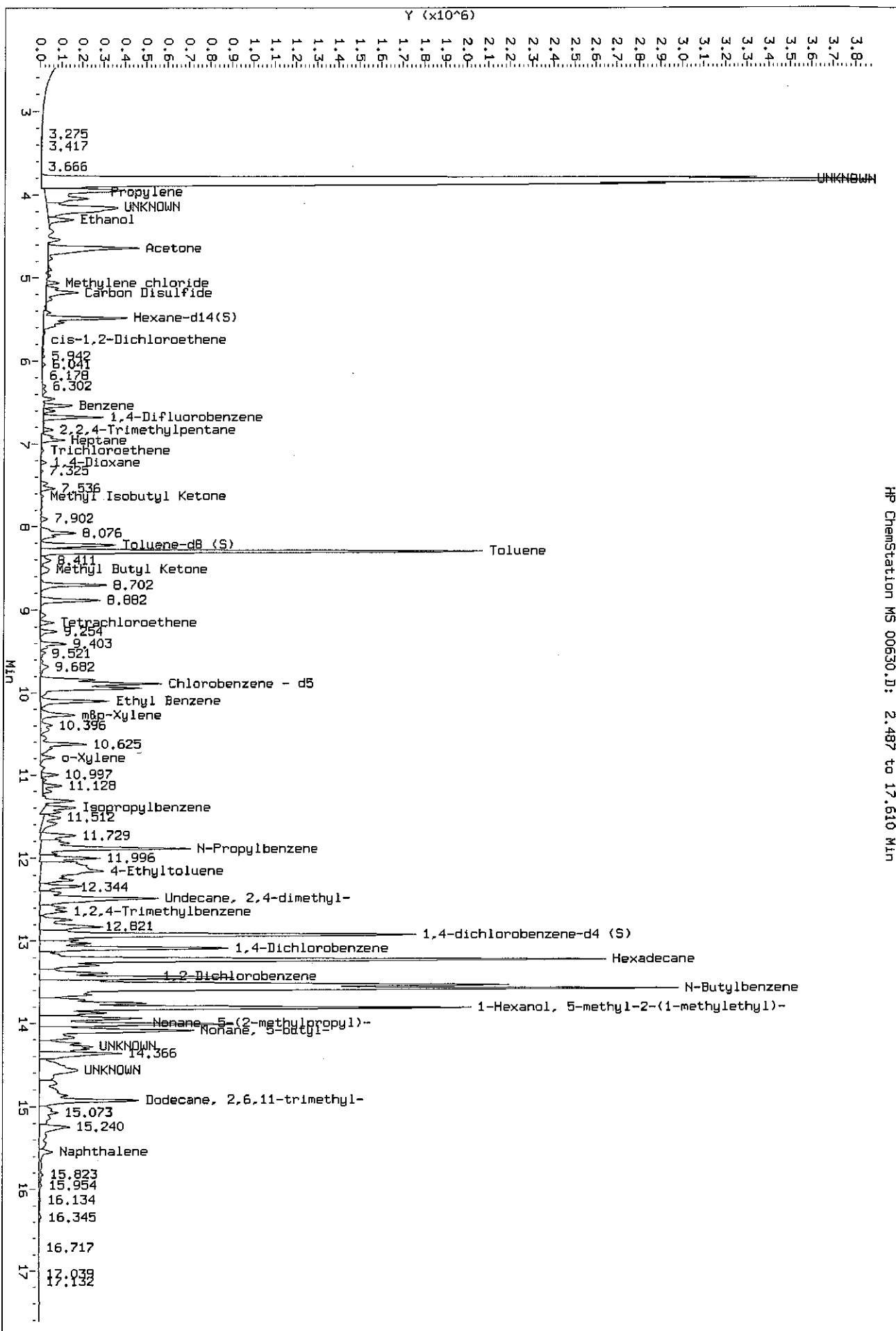
RT	AREA	CONCENTRATIONS		QUAL	QUANT			CPND #
		ON-COL( ppbv)	FINAL( ppbv)		LIBRARY	LIB ENTRY		
<b>Unknown</b>								
3.827	20728391	325.474685	609	0		0		38
<b>Decane, 2,2,5-trimethyl-</b>								
11.884	1403179	23.5281276	44.0	78	NIST05.L	46153		55
<b>Hexadecane</b>								
12.474	1503626	25.2124008	47.1	90	NIST05.L	76090		55
<b>Decane, 2,2,7-trimethyl-</b>								
12.914	3673159	61.5905487	115	78	NIST05.L	46155		55
<b>Oxalic acid, 6-ethyloct-3-yl heptyl este</b>								
13.218	6116832	102.565416	192	78	NIST05.L	141299		55

Data File: \\192.168.10.12\chem\10air0.i\010614.b\00631.D  
Report Date: 07-Jan-2014 16:47

RT	AREA	CONCENTRATIONS		QUAL	QUANT		
		ON-COL( ppbv)	FINAL( ppbv)		LIBRARY	LIB ENTRY	CPND #
====	=====	=====	=====	=====	=====	=====	=====
					CAS #: 3522-94-9		
13.572	9826204	164.763170	308	72	NIST05.L	12329	55
Unknown					CAS #:		
13.807	4672856	78.3532004	146	0		0	55
					CAS #: 563-16-6		
13.993	2003100	33.5874438	62.8	80	NIST05.L	7446	55
					CAS #: 17312-63-9		
14.086	1670935	28.0177962	52.4	72	NIST05.L	46088	55
					CAS #: 62237-99-4		
14.359	1641531	27.5247605	51.5	72	NIST05.L	46155	55

Data File: \\192.168.10.12\chem\1pair0.i\010614.b\00630.D  
 Injection Date: 06-JAN-2014 23:24  
 Instrument: 10ai0.i  
 Client Sample ID:

HP ChemStation MS 00630.D: 2.487 to 17.610 Min



Data File: \\192.168.10.12\chem\10air0.i\010614.b\00630.D  
Report Date: 07-Jan-2014 16:47

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:  
Lab Smp Id: 10253655002  
Operator : DJL  
Sample Location:  
Sample Matrix: AIR  
Analysis Type: VOA  
Inj Date: 06-JAN-2014 23:24

Client SDG: 010614.b  
Sample Date:  
Sample Point:  
Date Received:  
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:  
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	3.827	564	J
2.	Unknown	4.149	49.2	J
3. 17312-80-0	Undecane, 2,4-dimethyl-	12.480	12.8	NJ
4. 544-76-3	Hexadecane	13.224	44.1	NJ
5. 2051-33-4	1-Hexanol, 5-methyl-2-(1-me	13.807	41.9	NJ
6. 62185-53-9	Nonane, 5-(2-methylpropyl)-	13.994	20.1	NJ
7. 17312-63-9	Nonane, 5-butyl-	14.087	17.0	NJ
8.	Unknown	14.279	8.80	J
9.	Unknown	14.570	9.28	J
10. 31295-56-4	Dodecane, 2,6,11-trimethyl-	14.924	13.9	NJ

Data File: \\192.168.10.12\chem\10air0.i\010614.b\00630.D  
Report Date: 07-Jan-2014 16:47

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air0.i\010614.b\00630.D  
Lab Smp Id: 10253655002  
Inj Date : 06-JAN-2014 23:24  
Operator : DJL Inst ID: 10air0.i  
Smp Info :  
Misc Info : 19115  
Comment : Volatile Organic COMPOUNDS in Air  
Method : \\192.168.10.12\chem\10air0.i\010614.b\TO15\_006-14.m  
Meth Date : 07-Jan-2014 13:40 drandall Quant Type: ISTD  
Cal Date : 06-JAN-2014 11:21 Cal File: 00605.D  
Als bottle: 30  
Dil Factor: 1.87000  
Integrator: HP RTE Compound Sublist: all.sub  
Target Version: 4.14  
Processing Host: 10AIRPC4

Concentration Formula: Amt \* DF \* Uf \* CpndVariable

Name	Value	Description
DF	1.870	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
*	6.674	668293	10.000
*	9.844	2966128	10.000

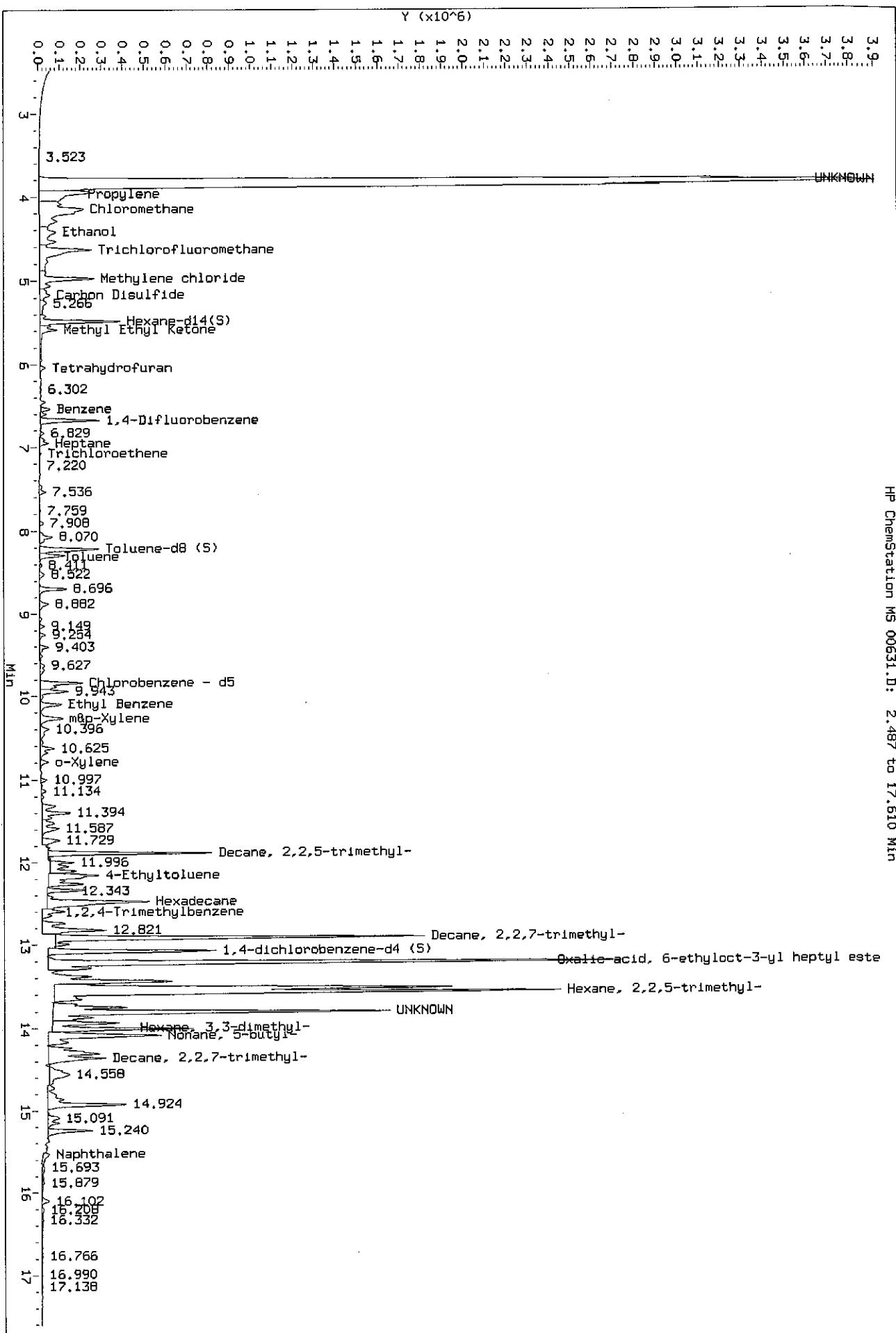
CONCENTRATIONS				QUANT			
RT	AREA	ON-COL( ppbv)	FINAL( ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown							
3.827	20176353	301.908467	564	0		0	38
Unknown							
4.149	1756545	26.2840318	49.2	0		0	38
Undecane, 2,4-dimethyl-				CAS #: 17312-80-0			
12.480	2024047	6.82386948	12.8	80	NIST05.L	46131	55
Hexadecane				CAS #: 544-76-3			
13.224	7002731	23.6089929	44.1	80	NIST05.L	76090	55
1-Hexanol, 5-methyl-2-(1-methylethyl)-				CAS #: 2051-33-4			
13.807	6647611	22.4117446	41.9	78	NIST05.L	28408	55

Data File: \\192.168.10.12\chem\10air0.i\010614.b\00630.D  
Report Date: 07-Jan-2014 16:47

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL( ppbv)	FINAL( ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	=====	=====	=====	====	=====	=====	=====
				CAS #: 62185-53-9			
13.994	3192048	10.7616648	20.1	72	NIST05.L	46170	55
				CAS #: 17312-63-9			
14.087	2694647	9.08472748	17.0	72	NIST05.L	46088	55
				CAS #:			
14.279	1395775	4.70571318	8.80	0		0	55
				CAS #:			
14.570	1472830	4.96549723	9.28	0		0	55
				CAS #: 31295-56-4			
14.924	2206049	7.43746981	13.9	72	NIST05.L	66078	55

Data File: \\192.168.10.12\chem\10air0.1\010614.b\00631.D  
Injection Date: 05-JAN-2014 23:57  
Instrument: 10air0.1  
Client Sample ID:

HP ChemStation MS 00631.D: 2.487 to 17.610 Min



## **APPENDIX D**

## Appendix D Data Assessment Report

The quality assurance objectives for this project were described in the *Quality Assurance Project Plan (QAPP), Ramsey County Brownfield Assessment Project* dated July 19, 2013, Revision 1. As described in the QAPP, this project had six primary objectives: Precision, Accuracy, Representativeness, Completeness, Comparability, and Sensitivity. This appendix provides a review of the field and laboratory procedures employed during this project per the quality assurance objectives.

### **D.1 Precision**

Precision is the agreement between the numerical values of two or more measurements that have been made in an identical manner.

#### **D.1.1 Field Precision**

Field sampling precision was assessed through the collection and analysis of duplicate samples. Per the QAPP, at least one duplicate sample was to be collected per 20 analytical samples for any matrix, except soil gas.

One duplicate soil sample was collected along with the 13 soil samples collected during this investigation. One duplicate groundwater sample was collected along with the 6 groundwater samples. The reported results for the original samples are displayed with the reported results for their corresponding duplicate samples in **Tables D-1 and D-2**. The original results for the soil sample varied by more than 50% from the duplicate soil sample for two PAH compounds and mercury. This lack of agreement is common for soil samples with low contaminant concentrations. Further, since none of the reported concentrations exceeded an SRV the difference is not significant. The original results for the groundwater samples were all less than a relative percent difference (RPD) of 50%. Therefore the field precision objective for both the soil and groundwater samples was achieved.

#### **D.1.2 Laboratory Precision**

The precision of laboratory analyses was based upon matrix spike/matrix spike duplicate (MS/MSD) analyses. Precision was reported by the laboratory as Relative Percent Difference (RPD). LCS/LCSD analyses were conducted in accordance with laboratory Standard Operating Procedures (SOPs). The Quality Assurance (QA) objectives for laboratory parameters were listed in Table 3 of the QAPP.

The RPDs for the laboratory analyses were included with the laboratory reports (see **Appendix C**). The RPDs for each listed compound were either within the QA objectives in Tables 2a, 2b and 2c of the QAPP or were explained in the laboratory case narrative and notes, therefore the laboratory precision objective was achieved.

## D.2 Accuracy

Accuracy is the degree of agreement between a measurement or observed value and an accepted reference or true value. Problems with accuracy may be due to sample contamination or some other source of bias.

### D.2.1 Field Accuracy

Field sampling accuracy was assessed by evaluating the results of field and trip blank samples for contamination. A trip blank is a laboratory-prepared sample of reagent grade water or methanol. Trip blanks accompany sample containers with volatile organic compound (VOC) samples and are subjected to the same procedures as the investigative samples. Field blanks (equipment blanks) are collected by pouring laboratory-prepared water or distilled water over or through the sampling equipment and collecting the rinse water in the proper analytical containers. Field banks are required at the rate of one per 20 investigative samples. Since no reusable sampling equipment was used during this investigation, there were no field blanks submitted or analyzed during this investigation.

The results of the trip blank are provided in the laboratory reports (**Appendix C**) and are displayed in **Table D-1**. As provided, all of the results for the trip blanks were below the laboratory detection limits, therefore the field accuracy objective was achieved.

### D.2.2 Laboratory Accuracy

The percent recoveries of Matrix Spike (MS), Matrix Spike Duplicates (MSDs), Laboratory Control Samples (LCS) and Laboratory Control Sample Duplicates (LCSD) were compared to the QA Objectives in Tables 2a and 2c of the QAPP to determine laboratory accuracy. In addition, the results from analyses of method blanks were reviewed.

The percent recovery of the MS, MSD, LCS, and LCSD for soil and soil gas samples were within limits specified in the QAPP except as provided in the laboratory qualifiers. A summary of the laboratory report data qualifiers is presented in laboratory reports (**Appendix C**). In summary, based on the explanations provided in the laboratory report qualifiers, the analytical data appears acceptable for its intended use for site characterization.

## D.3 Representativeness

The degree to which data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition, defines representativeness.

### *D.3.1 Representativeness of Field Data*

Representativeness was determined by ensuring that sampling locations were properly selected. Representativeness is therefore dependent upon the proper design of the sampling program and following the QAPP, the site-specific Work Plan/Sampling and Analysis Plan (SAP), and all relevant SOPs. The QA goal was to have all samples and measurements representative of the media sampled. Homogenization of soils for all analyses except VOCs after the subject aliquot is collected helped ensure that representative soil samples are collected.

All of the soil borings were completed in the locations proposed in the SAP, therefore the representativeness of field sample locations was achieved.

A total of 14 soil samples, 7 groundwater samples, and 2 soil gas samples, including one duplicate soil sample and one duplicate groundwater sample were collected and submitted to the laboratory. In the SAP 12 soil samples, 7 groundwater samples, and 2 soil gas sample were identified. The groundwater and soil gas samples submitted were 100% of the expected samples. The soil samples were 117% of the expected.

The representativeness objective of field samples was achieved.

### *D.3.2 Representativeness of Laboratory Data*

Representativeness of laboratory data cannot be quantified; however, adherence to the prescribed analytical methods and procedures, including holding times, blanks, and duplicates, will ensure that the laboratory data is representative.

The laboratory ran internal blanks and duplicates according their procedures. All samples were analyzed within hold times.

## **D.4 Completeness**

The measure of the quantity of valid data obtained from a measurement system compared to the quantity that was expected, under normal conditions, is the definition of completeness. Although a completeness goal of 100% is desirable, an overall completeness goal of 90% is deemed acceptable.

### *D.4.1 Field Completeness*

The field sampling crew took measures to have data generated in the field be valid data and complete. Field completeness goals for this project were set at 90% for this project.

A total of 21 investigative samples and two duplicate samples were collected and submitted to the laboratory from the field events. All of the samples reached the laboratory and met laboratory acceptance criteria.

Therefore the field completeness objective was achieved.

#### ***D.4.2 Laboratory Completeness***

Laboratory completeness is a measure of the quantity of valid data measurements and analysis obtained from all the measurements and analyses completed for the project. The laboratory completeness objective was set at 90% for this project.

A total of 23 samples were submitted from the field sampling event. The laboratory provided results for all of the samples submitted. Therefore the laboratory completeness objective was achieved.

### **D.5 Comparability**

The confidence with which one data set can be compared to another is a measure of comparability. The ability to compare data sets is particularly critical when a set of data for a specific parameter is compared to historical data for determining trends.

#### ***D.5.1 Comparability of Field Data***

Ensuring that the Work Plan/SAP and associated QAPP were adhered to and that all samples were properly handled and analyzed satisfied the comparability of field data. The PID calibrations were recorded during the field events. The results and frequencies met the requirements of the SOPs. One individual conducted the sampling for the two field events. Therefore the field comparability objective was achieved.

#### ***D.5.2 Comparability of Laboratory Data***

Analytical data are comparable when the data are collected and preserved in the same manner followed by analysis with the same standard method and reporting limits. Data comparability is limited to data from the same environmental media. Analytical method quality specifications have been established to help ensure the data will produce results that are comparable.

The same laboratory and laboratory analytical methods were used for similar compounds; therefore the comparability of laboratory data objective was achieved.

### **D.6 Sensitivity and Quantitation Limits**

If the laboratory or field reports indicate that the sensitivity and/or quantitation limits (QLs) were not achieved, then the impact of that lack of sensitivity and/or higher QLs on data usability will be evaluated.

### ***D.6.1 Field***

The field sensitivity and QLs are evaluated by a review of field verification records and a comparison of field measurements with laboratory results for the same sample.

The photoionization detector (PID) results from the soil samples were consistent with the VOC, GRO and/or DRO results for associated laboratory samples. The field sensitivity objective was achieved.

### ***D.6.2 Laboratory***

The reporting limits for DRO and VOCs soil analyses were all less than 135% of the reporting limits stated on Table 2a of the QAPP for all samples. Several of the PAH soil analyses were diluted, however, the detection limits remained below the regulatory criteria for all samples. Several of the PCB soil analyses were diluted, resulting in some laboratory reporting limits exceeding the screening SLV, however, the reporting limits were below the SRVs. Some of the metal analyses had reporting limits that were 3 times the reporting limits in Table 2a; in those cases the analyses reported a positive result that was below the regulatory limits.

The reporting limits for DRO and VOC groundwater analyses were all less than 110% of the reporting limits stated on Table 2b of the QAPP for all samples.

Due to dilution of the samples, the reporting limits for the VOCs in air were up to 200% of the reporting limits stated in the Table 2c of the QAPP.

Although some of the reporting limits were above the reporting limits stated in the QAPP, the sensitivity objective was achieved.

**Table D-1**  
**Comparison of Analytical Results of Soil Duplicate Samples**  
**1522 Whitaker Street**  
**White Bear Lake, Minnesota**

Compound/Parameter	CAS No.	Sample Identifier and Date Collected			
		WH-SB-GP-12 (2-4')	WH-SB-GP-12 (2-4')-FD	RPD	WH-SB-TB
		12/26/2013	12/26/2013		12/26/2013
<b>Volatile Organic Compounds (VOCs) reported in mg/kg</b>					
All reported VOCs	Various	ND	ND	None	ND
<b>Polycyclic-Aromatic Hydrocarbons (PAHs) reported in mg/kg</b>					
Acenaphthene	83-32-9	ND(0.53)	ND(0.53)	None	NA
Acenaphthylene	208-96-8	ND(0.53)	ND(0.53)	None	NA
Anthracene	120-12-7	ND(0.53)	ND(0.53)	None	NA
Benzo(a)anthracene	56-55-3	ND(0.53)	1.1	None	NA
Benzo(a)pyrene	205-99-2	ND(0.53)	1.2	None	NA
Benzo(b)fluoranthene	207-08-9	ND(0.53)	1.4	None	NA
Benzo(g,h,i)perylene	50-32-8	0.62	0.83	29%	NA
Benzo(k)fluoranthene	191-24-2	ND(0.53)	ND(0.53)	None	NA
Chrysene	218-01-9	ND(0.53)	1.0	None	NA
Dibenz(a,h)anthracene	53-70-3	ND(0.53)	ND(0.53)	None	NA
Fluoranthene	206-44-0	0.74	2.8	116%	NA
Fluorene	86-73-7	ND(0.53)	ND(0.53)	None	NA
Indeno(1,2,3-cd)pyrene	193-39-5	ND(0.53)	0.86	None	NA
Naphthalene	91-20-3	ND(0.53)	ND(0.53)	None	NA
Phenanthrene	85-01-8	ND(0.53)	1.7	None	NA
Pyrene	129-00-0	0.8	2.3	97%	NA
BaP Equivalent <sup>c</sup>	Various	ND	1.9	None	NA
<b>Polychlorinated Biphenyls (PCBs) reported in mg/kg</b>					
PCB 1016	12674-11-2	ND(0.18)	ND(0.18)	None	NA
PCB 1221	11104-28-2	ND(0.18)	ND(0.18)	None	NA
PCB 1232	11141-16-5	ND(0.18)	ND(0.18)	None	NA
PCB 1242	53469-21-9	ND(0.18)	ND(0.18)	None	NA
PCB 1248	12672-29-6	ND(0.18)	ND(0.18)	None	NA
PCB 1254	11097-69-1	0.21	ND(0.18)	None	NA
PCB 1260	11096-82-5	ND(0.18)	ND(0.18)	None	NA
PCB 1268	11100-14-4	ND(0.18)	ND(0.18)	None	NA
Total reported PCBs	1336-36-3	0.21	ND(0.18)	None	NA
<b>Metals reported in mg/kg</b>					
Arsenic, Total	7440-38-2	ND(1.0)	ND(0.84)	None	NA
Barium, Total	7440-39-3	28.8	25.2	13%	NA
Cadmium, Total	7440-43-9	ND(0.15)	ND(0.13)	None	NA
Chromium, Total <sup>d</sup>	7440-47-3	14.2	10.5	30%	NA
Lead, Total	7439-92-1	142	87.4	48%	NA
Mercury, Total	7439-97-6	0.059	0.22	115%	NA
Selenium, Total	7782-49-2	2.6	2.6	0%	NA
Silver, Total	7440-22-4	ND(0.51)	ND(0.42)	None	NA
<b>Other Parameters reported in mg/kg</b>					
Diesel Range Organics (DRO)	NE	127	137	8%	NA
Diesel Range Organics by Silica Gel	NE	107	NA	None	NA

**NOTES:**

mg/kg = Milligrams per kilogram.

RPD = Relative Percent Difference

NA = Sample not analyzed for this parameter.

ND = Not detected at or above the laboratory reporting limit indicated in laboratory report.

NE = Not established

<sup>c</sup> = Benzo(a)pyrene (BaP) equivalent is a calculated value based on the weighted concentration and toxicity of the following compounds:

benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

**Table D-2**  
**Comparison of Analytical Results of Groundwater Duplicate Samples**  
**1522 Whitaker Street**  
**White Bear Lake, Minnesota**

Compound/Parameter	CAS No.	Sample Identifier and Date Collected		RPD
		WH-SW-GP-5	WH-SW-GP-5-FD	
		12/27/2013	12/27/2013	
<b>Volatile Organic Compounds (VOCs) reported in µg/L</b>				
1,4-Dichlorobenzene	106-46-7	<b>2.0</b>	<b>1.9</b>	<b>5%</b>
All other reported VOCs	NE	ND	ND	None
<b>Other Parameters reported in µg/L</b>				
Diesel Range Organics (DRO)	NE	<b>210</b>	<b>210</b>	<b>0%</b>
Gasoline Range Organics (GRO)	NE	ND (110)	ND (110)	None

**NOTES:**

µg/L = Micrograms per liter.

RPD = Relative Percent Difference

ND = Not detected at or above the laboratory reporting limit indicated in laboratory report.